

Read this manual carefully. It contains important safety information.

This is an adult vehicle only.

Operation is prohibited for those under 16 years of age.

AWARNING

Improper vehicle use can result in SEVERE INJURY or DEATH.

NEVER:

- Operate on public roads. A collision can occur with another vehicle.
- Carry passengers. Passengers affect balance and steering and increase risk of losing control.
- USE ALCOHOL or DRUGS before or while operating this vehicle.
- Operate at speeds too fast for your skills or the conditions.
- Operate this vehicle on HILLS steeper than 15 degrees. To prevent flipover on hilly terrain, use throttle and brakes gradually.

ALWAYS:

- Use an approved HELMET AND PROTECTIVE GEAR.
- Avoid paved surfaces. Pavement may seriously affect handling and control.
- Use proper RIDING TECHNIQUES to avoid vehicle overturns on hills and rough terrain and in turns.
- Use OVERRIDE for reverse speed limiter with caution. To prevent loss of control, never activate override button with open throttle.

REVERSE operation can be dangerous, even at low speeds. Steering becomes difficult. To prevent flipover, avoid sharp turns.

PARKING BRAKE may relax when used for more than 5 minutes. When parking on grades, leave shift in forward.

LOCATE AND READ OWNER'S MANUAL.
FOLLOW ALL INSTRUCTIONS AND WARNINGS.
IF OWNER'S MANUAL IS MISSING, CONTACT A
POLARIS DEALER FOR A REPLACEMENT.



For your nearest Polaris dealer, call 1-800-POLARIS or visit www.polarisindustries.com Polaris Sales Inc., 2100 Hwy. 55, Medina, MN 55340 Phone 1-888-704-5290 Part No. 9921309 Rev 02 Printed in USA

AWARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

WELCOME

Thank you for purchasing a Polaris vehicle, and welcome to our world-wide family of Polaris owners. We proudly produce an exciting line of utility and recreational products.

- Snowmobiles
- All-terrain vehicles (ATVs)
- RANGER utility vehicles
- · Victory motorcycles

We believe Polaris sets a standard of excellence for all utility and recreational vehicles manufactured in the world today. Many years of experience have gone into the engineering, design, and development of your Polaris vehicle, making it the finest machine we've ever produced.

For safe and enjoyable operation of your vehicle, be sure to follow the instructions and recommendations in this owner's manual. Your manual contains instructions for minor maintenance, but information about major repairs is outlined in the Polaris Service Manual and should be performed only by a Factory Certified Master Service Dealer (MSD) Technician

Your Polaris dealer knows your vehicle best and is interested in your total satisfaction. Be sure to return to your dealership for all of your service needs during, and after, the warranty period.

We also take great pride in our complete line of apparel, parts and accessories, available through our online store at www.purepolaris.com. Have your accessories and clothing delivered right to your door!



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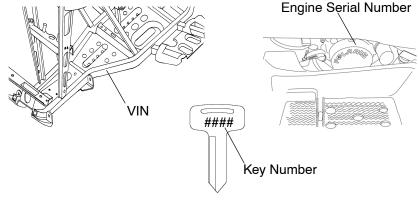
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KNOW YOUR VEHICLE

As the operator of the vehicle, you are responsible for your personal safety, the safety of others, and the protection of our environment. Read and understand your owner's manual, which includes valuable information about all aspects of your vehicle, including safe operating procedures.

Vehicle Identification Numbers

Record your vehicle's identification numbers and key number in the spaces provided. Remove the spare key and store it in a safe place. An ignition key can be duplicated only by ordering a Polaris key blank (using your key number) and mating it with one of your existing keys. The ignition switch must be replaced if all keys are lost.



Vehicle Model Number:	
Frame VIN:	
Engine Serial Number: _	
Kev Number:	

Safety Decals and Locations

Warning decals have been placed on the ATV for your protection. Read and follow the instructions of the decals on the ATV carefully. If any of the decals depicted in this manual differ from the decals on your ATV, always read and follow the instructions of the decals *on the ATV*.

If any decal becomes illegible or comes off, contact your Polaris dealer to purchase a replacement. Replacement *safety* decals are provided by Polaris at no charge. The part number is printed on the decal.

General Warning

WARNING

Improper vehicle use can result in SEVERE INJURY or DEATH

NFVFR:

- Operate on public roads. A collision can occur with another vehicle.
- Carry passengers. Passengers affect balance and steering and increase risk of losing control.
- USE ALCOHOL or DRUGS before or while operating this vehicle.
- Operate at speeds too fast for your skills or the conditions.
- Operate this vehicle on HILLS steeper than 15 degrees. To prevent flipover on hilly terrain, use throttle and brakes gradually.

AI WAYS:

- Use an approved HELMET AND PROTECTIVE GEAR.
- Avoid paved surfaces. Pavement may seriously affect handling and control.
- Use proper RIDING TECHNIQUES to avoid vehicle overturns on hills and rough terrain and in turns.
- Use OVERRIDE for reverse speed limiter with caution. To prevent loss of control, never activate override button with open throttle.

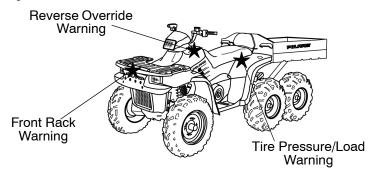
REVERSE operation can be dangerous, even at low speeds. Steering becomes difficult. To prevent flipover, avoid sharp turns.

PARKING BRAKE may relax when used for more than 5 minutes. When parking on grades, leave shift in forward.

LOCATE AND READ OWNER'S MANUAL. FOLLOW ALL INSTRUCTIONS AND WARNINGS. IF OWNER'S MANUAL IS MISSING, CONTACT A POLARIS DEALER FOR A REPLACEMENT.



Safety Decals and Locations



Tire Pressure/Load Warning

WARNING

IMPROPER TIRE PRESSURE OR OVERLOADING can cause loss of control resulting in SEVERE INJURY OR DEATH.

TIRE PRESSURE IN PSI (KPa): FRONT 5 (34.5) CENTER 5 (34.5) REAR 5 (34.5)

MAXIMUM WEIGHT CAPACITY 1090 LBS. (494 kg) INCLUDES WEIGHT OF OPERATOR, CARGO AND ACCESSORIES.

Reduce speed and allow greater distance for braking when carrying cargo. Overloading or carrying tall, off-center, or unsecured loads will increase your risk of losing control. Loads should be centered, carried as low as possible in bed, and firmly secured to the rack. For stability on rough or hilly terrain, reduce speed and cargo. Do not block headlight. Be careful if load extends over the side of the rack or box.

Read Owner's Manual for more detailed loading information.

Front Rack/Box Warning

WARNING

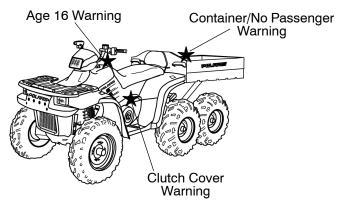
DO NOT TOW FROM RACK OR BUMPER. Vehicle damage or tipover may result causing severe injury or death. Tow only from tow hooks or hitch. Max. combined Front Rack and container Load 75 lbs. (34 kg)

Reverse Override Warning

WARNING

Pushing reverse override button may cause sudden increases in power and traction if too much throttle is applied. Loss of control or forward flipover may result, especially in AWD. See Owner's Manual.

SAFETY Safety Decals and Locations



Age 16 Warning

WARNING

Operating this ATV if you are under the age of 16 increases your chance of severe injury or death.

NEVER operate this ATV if you are under age 16.

Container/No Passenger Warning

WARNING

Remove flammable containers from box before refueling.

WARNING

- · Passengers can be thrown off. This can cause serious injury or death.
- · Never carry passengers.

Maximum Box Load 800 lbs. (363 kg)

Clutch Cover Warning

WARNING

NO STEP

- Moving parts hazard under belt-clutch guard. To prevent serious injury, do not
 operate vehicle with guard removed.
- Do not modify engine or clutch. Doing so can cause part failure, possible imbalance, and excessive engine RPM, which can result in serious injury or death.

Safety Decals and Locations All Wheel Drive Switch

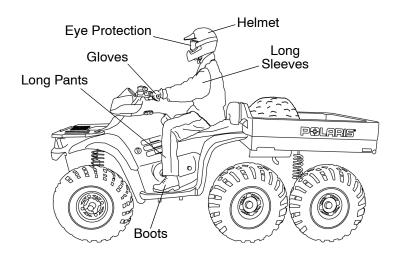
Do not push switch to engage AWD if the rear wheels are spinning. This may cause severe drive shaft and clutch damage. See your Owner's Manual.

Hitch Capacity Label

TRAILER MAX WEIGHT: 1500 LBS. (682 KG) ON LEVEL GROUND 850 LBS. (386 KG) UP TO 15° GRADE HITCH MAX. VERTICAL WEIGHT: 150 LBS. (68 KG)

SAFETY Safe Riding Gear

Always wear appropriate clothing when riding an ATV. Wear protective clothing for comfort and to reduce the chance of injury.



Helmet

Wearing a helmet can prevent a severe head injury. Whenever riding a Polaris vehicle, always wear a helmet that meets or exceeds established safety standards.

Approved helmets in the USA and Canada bear a U.S. Department of Transportation (DOT) label.

Approved helmets in Europe, Asia and Oceania bear the ECE 22.05 label. The ECE mark consists of a circle surrounding the letter E, followed by the distinguishing number of the country which has granted approval. The approval number and serial number will also be displayed on the label.



Safe Riding Gear

Eye Protection

Do not depend on eyeglasses or sunglasses for eye protection. Whenever riding a Polaris vehicle, always wear shatterproof goggles or use a shatterproof helmet face shield. Polaris recommends wearing approved Personal Protective Equipment (PPE) bearing markings such as VESC 8, V-8, Z87.1, or CE. Make sure protective eye wear is kept clean.

Gloves

Off-road style gloves with knuckle pads are the best for comfort and protection.

Boots

The best footwear is a pair of sturdy over-the-calf boots with low heels.

Clothing

Always wear long sleeves and long pants to protect arms and legs. Riding pants with kneepads and a jersey with shoulder pads provide the best protection.

A WARNING

Failure to follow the warnings contained in this manual can result in severe injury or death.

A Polaris ATV is not a toy and can be hazardous to operate. This vehicle handles differently than other vehicles, such as motorcycles and cars. A collision or rollover can occur quickly, even during routine maneuvers like turning, or driving on hills or over obstacles, if you fail to take proper precautions.

Read and understand your owner's manual and all warnings before operating a Polaris ATV.

Age Restrictions

This vehicle is an ADULT VEHICLE ONLY. Operation is prohibited for anyone under 16 years of age.

Operator Safety Safety Training

ATV safety training is a top priority for Polaris. When you purchased your new ATV, your dealer instructed you on the authorized ATV *RiderCourse*sm available to you and your eligible family members. This training is included in the purchase price of your ATV. Polaris strongly encourages you and your eligible family members who will be riding the ATV to take the ATV *RiderCourse*sm. You were also provided with printed materials that explain safe operating procedures. You should review this information on a regular basis.

If you purchased a used Polaris ATV, you can take the ATV *RiderCourse*sm by calling ATV Enrollment Express at (800) 887-2887 or by visiting www.atvsafety.org. Purchasers of a used Polaris ATV will be charged for this training.

A Polaris ATV is an off-road vehicle. Familiarize yourself with all laws and regulations concerning the operation of this vehicle in your area.

We strongly advise you to strictly follow the recommended maintenance program outlined in your owner's manual. This preventive maintenance program is designed to ensure that all critical components on your vehicle are thoroughly inspected at specific intervals.

Operator Safety

The following signal words and symbols appear throughout this manual and on your vehicle. Your safety is involved when these words and symbols are used. Become familiar with their meanings before reading the manual.



The *safety alert symbol*, on your vehicle or in this manual, alerts you to the potential for injury.

A WARNING

The *safety alert warning* indicates a potential hazard that may result in serious injury or death.

A CAUTION

The safety alert caution indicates a potential hazard that may result in minor injury or damage to the vehicle.

CAUTION

A caution indicates a situation that may result in damage to the vehicle.

NOTE

A *note* will alert you to important information or instructions.

A WARNING

Serious injury or death can result if you do not follow these instructions and procedures, which are outlined in further detail within your owner's manual.

- Read this manual and all labels carefully, and follow the operating procedures described.
- Never operate an ATV without proper instruction. Take a training course. Purchasers of a new Polaris ATV and their eligible family members are entitled to take the ATV *RiderCourse*sm. Contact ATV Enrollment Express at (800) 887-2887 or visit www.atvsafety.org for information on enrollment in the ATV *RiderCourse*sm.
- Never allow anyone under 16 years of age to operate this ATV.
- Never permit a guest to operate the ATV unless the guest has read this manual and all product labels and has completed a certified safety training course.
- Always avoid operating an ATV on paved surfaces, including sidewalks, driveways, parking lots, and streets.
- Never operate an ATV on a public street, road or highway, including a dirt or gravel road.
- Never operate an ATV without wearing an approved helmet that fits properly. Always wear eye protection (goggles or face shield), gloves, boots, a long-sleeved shirt or jacket, and long pants.
- Never consume alcohol or drugs before or while operating an ATV.
- Never operate at excessive speeds. Travel at speeds appropriate for the terrain, visibility and operating conditions, and your experience.
- Never attempt jumps or other stunts.
- Always inspect your ATV before each use to make sure it's in safe operating condition. Always follow the inspection and maintenance procedures and schedules outlined in your owner's manual.
- Always keep both hands on the handlebars and both feet on the footrests of the ATV during operation.

Operator Safety

- Always travel slowly and use extra caution when operating on unfamiliar terrain. Be alert to changing terrain conditions.
- Never operate on excessively rough, slippery, or loose terrain.
- Always follow proper turning procedures as described in this manual.
 Practice turning at low speeds before attempting to turn at faster speeds. Do not turn at excessive speeds.
- Always have the ATV inspected by an authorized Polaris dealer if it's been involved in an accident.
- Never operate on hills too steep for the ATV or for your abilities. Practice on smaller hills before attempting larger hills.
- Always follow proper procedures for climbing hills. Check the terrain carefully before ascending a hill. Never climb hills with excessively slippery or loose surfaces. Shift your weight uphill. Never open the throttle suddenly or make sudden gear changes. Never go over the top of a hill at high speed.
- Always follow proper procedures for going downhill and for braking on hills. Check the terrain carefully before you start down a hill. Shift your weight uphill. Never go down a hill at high speed. Avoid going down a hill at an angle, which would cause the vehicle to lean sharply to one side. Drive straight downhill.
- Always follow proper procedures for crossing the side of a hill. Avoid hills with excessively slippery or loose surfaces. Shift your weight uphill. Never attempt to turn the ATV around on any hill until you've mastered (on level ground) the turning technique outlined in this manual. Avoid crossing the side of a steep hill when possible.
- Always use proper procedures if you stall or roll backwards while climbing a hill. To avoid stalling, maintain a steady speed when climbing a hill. If you stall or roll backwards, follow the special procedure for braking described in this manual. Always dismount on the uphill side, or to either side if the ATV is pointed straight uphill. Turn the ATV around and remount following the procedure described in this manual.

- Always check for obstacles before operating in a new area. Never attempt to operate over large obstacles, such as rocks or fallen trees. Always follow proper procedures when operating over obstacles as described in this manual.
- Always be careful of skidding or sliding. On slippery surfaces like ice, travel slowly and use extra caution to reduce the chance of skidding or sliding out of control.
- Avoid operating the ATV through deep or fast-flowing water. If it's unavoidable, travel slowly, balance your weight carefully, avoid sudden movements, and maintain a slow and steady forward motion. Do not make sudden turns or stops, and do not make sudden throttle changes.
- Wet brakes may have reduced stopping ability. Test the brakes after leaving water. If necessary, apply them lightly several times to allow friction to dry out the pads.
- Always check for obstacles or people behind the ATV before operating in reverse. When it's safe to proceed in reverse, move slowly and avoid turning at sharp angles.
- Always use the size and type of tires specified for your ATV, and always maintain proper tire pressure.
- Never modify an ATV through improper installation or use of accessories.
- Never exceed the stated load capacity for your ATV. Cargo must be properly distributed and securely attached. Reduce speed and follow the instructions in this manual for carrying cargo or towing. Allow a greater distance for braking.
- Always remove the ignition key when the vehicle is not in use to prevent unauthorized use or accidental starting.

FOR MORE INFORMATION ABOUT ATV SAFETY, call the Consumer Product Safety Commission at 1-800-638-2772, or visit www.cpsc.gov, visit www.atvsafety.org, or call Polaris at 1-800-342-3764.

SAFETY Operator Safety Equipment Modifications

We are concerned for the safety of our customers and for the general public. Therefore, we strongly recommend that consumers do not install on a Polaris ATV any equipment that may increase the speed or power of the vehicle, or make any other modifications to the vehicle for these purposes. Any modifications to the original equipment of the vehicle create a substantial safety hazard and increase the risk of bodily injury.

The warranty on your Polaris ATV is terminated if any equipment has been added to the vehicle, or if any modifications have been made to the vehicle, that increase its speed or power.

NOTE: The addition of certain accessories, including (but not limited to) mowers, blades, tires, sprayers, or large racks, may change the handling characteristics of the vehicle. Use only Polaris-approved accessories, and familiarize yourself with their function and effect on the vehicle.

A WARNING

POTENTIAL HAZARD

Operating this ATV without proper instruction.

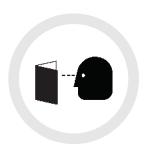
WHAT CAN HAPPEN

The risk of an accident is greatly increased if the operator does not know how to operate the ATV properly in different situations and on different types of terrain.

HOW TO AVOID THE HAZARD

Beginning and inexperienced operators should complete the ATV *RiderCourse*sm offered by Polaris through the SVIA. They should then regularly practice the skills learned in the course and the operating techniques described in the Owner's Manual.

For more information about the ATV *RiderCourse*sm contact ATV Enrollment Express at (800) 887-2887 or visit www.atvsafety.org.



A WARNING

POTENTIAL HAZARD

Failure to follow the age recommendations for this ATV.

WHAT CAN HAPPEN

Severe injury and/or death could occur if a child under the minimum age recommendation operates an ATV.

Even though a child may be within the recommended age group for operating some ATVs, he/she may not have the skills, abilities, or judgment needed to operate an ATV safely and could be susceptible to accident or injury.



No one under the age of 16 should operate a Polaris ATV.



A WARNING

POTENTIAL HAZARD

Carrying a passenger on an ATV.

WHAT CAN HAPPEN

Carrying a passenger greatly reduces the operator's ability to balance and control the ATV, which could cause an accident and injury to the operator and/or passenger.

A passenger riding on a rack or in the cargo bed can fall from the vehicle, which could result in serious injury.

HOW TO AVOID THE HAZARD

Never carry a passenger.



A WARNING

POTENTIAL HAZARD

Operating an ATV on paved surfaces, including sidewalks, paths, parking lots, and driveways.

WHAT CAN HAPPEN

ATV tires are designed for off-road use. Operating on paved surfaces may adversely affect the handling of the ATV and could result in loss of control, accident, and/or injury.

HOW TO AVOID THE HAZARD

Avoid operating the ATV on pavement. If it's unavoidable, travel slowly and avoid sudden turns or stops.



A WARNING

POTENTIAL HAZARD

Operating this ATV on public streets, roads or highways.

WHAT CAN HAPPEN

The ATV could collide with another vehicle

HOW TO AVOID THE HAZARD

Never operate the ATV on any public street, road or highway, including dirt and gravel roads. In many states it's illegal to operate ATVs on public streets, roads and highways.



A WARNING

POTENTIAL HAZARD

Operating this ATV without wearing an approved helmet, eye protection and protective clothing.

WHAT CAN HAPPEN

Operating an ATV without an approved helmet increases the risk of a severe head injury or death in the event of an accident.

Operating without eye protection could result in an accident and could increase the chance of a severe injury in the event of an accident.



Always wear an approved helmet that fits properly.

Always wear eye protection (goggles or face shield), gloves, boots, long-sleeved shirt or jacket, and long pants.



A WARNING

POTENTIAL HAZARD

Operating the ATV after consuming alcohol or drugs.

WHAT CAN HAPPEN

Consumption of alcohol and/or drugs could seriously affect operator judgment. Reaction time may be slower and operator balance and perception could be affected.

Consuming alcohol and/or drugs before or while operating an ATV could result in an accident causing severe injury or death.



Never consume alcohol or drugs before or while operating an ATV.



A WARNING

POTENTIAL HAZARD

Operating the ATV at excessive speeds.

WHAT CAN HAPPEN

Excessive speed increases the operator's chance of losing control of the ATV, which can result in an accident causing severe injury or death.

HOW TO AVOID THE HAZARD

Always operate the ATV at a speed that's proper for the terrain, visibility and operating conditions, and your experience.



Operator Safety

A WARNING

POTENTIAL HAZARD

Attempting jumps and other stunts.

WHAT CAN HAPPEN

Attempting stunts increases the chance of an accident, including an overturn.

HOW TO AVOID THE HAZARD

Never attempt jumps or other stunts. Avoid exhibition driving.



A WARNING

POTENTIAL HAZARD

Failure to inspect the ATV before operating.

Failure to properly maintain the ATV.

WHAT CAN HAPPEN

Poor maintenance increases the possibility of an accident or equipment damage.

HOW TO AVOID THE HAZARD

Always inspect your ATV before each use to make sure it's in safe operating condition.

Always follow the inspection and maintenance procedures and schedules described in the owner's manual.



A WARNING

POTENTIAL HAZARD

Removing hands from the handlebars or feet from the footrests during operation.

WHAT CAN HAPPEN

Removing even one hand or foot can reduce ability to control the vehicle or could cause loss of balance and ejection from the ATV.

If the operator's foot is not firmly planted on the footrest, it could contact the rear wheels and lead to accident or injury.



Always keep both hands on the handlebars and both feet on the footrests of the ATV during operation.



WARNING

POTENTIAL HAZARD

Failure to use extra caution when operating the ATV on unfamiliar terrain.

WHAT CAN HAPPEN

Unfamiliar terrain may contain hidden rocks, bumps, or holes that could cause loss of control or overturn.

HOW TO AVOID THE HAZARD

Travel slowly and use extra caution when operating on unfamiliar terrain. Always be alert to changing terrain conditions.



Operator Safety

A WARNING

POTENTIAL HAZARD

Failure to use extra caution when operating on excessively rough, slippery or loose terrain.

WHAT CAN HAPPEN

Operating on excessively rough, slippery or loose terrain could cause loss of traction or loss of control, which could result in an accident or overturn.

HOW TO AVOID THE HAZARD

Do not operate on excessively rough, slippery or loose terrain until you've learned and practiced the skills necessary to control the ATV on such terrain.

Always use extra caution on rough, slippery or loose terrain.



A WARNING

POTENTIAL HAZARD

Turning improperly.

WHAT CAN HAPPEN

Improper turns could cause loss of control and lead to a collision or overturn.

HOW TO AVOID THE HAZARD

Always follow proper procedures for turning as described in the owner's manual.

Practice turning at slow speeds before attempting to turn at faster speeds.

Never turn at excessive speed.



A WARNING

POTENTIAL HAZARD

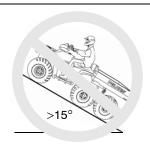
Operating on excessively steep hills.

WHAT CAN HAPPEN

The vehicle may overturn.

HOW TO AVOID THE HAZARD

Never operate on hills too steep for the ATV or for your abilities. Never operate the ATV on hills steeper than 15 degrees.



A WARNING

POTENTIAL HAZARD

Climbing hills improperly.

WHAT CAN HAPPEN

Improper hill climbing could cause loss of control or overturn.

HOW TO AVOID THE HAZARD

Always follow proper procedures for climbing hills as described in the owner's manual.

Always check the terrain carefully before ascending any hill.

Never operate the ATV on hills steeper than 15 degrees.

Never climb hills with excessively slippery or loose surfaces.

Shift your weight forward.

Never open the throttle suddenly while traveling uphill. The ATV could flip over backwards.

Never go over the top of any hill at high speed. An obstacle, a sharp drop, or another vehicle or person could be on the other side of the hill.

A WARNING

POTENTIAL HAZARD

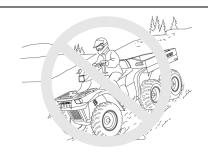
Traveling downhill improperly.

WHAT CAN HAPPEN

Improperly descending a hill could cause loss of control or overturn.

HOW TO AVOID THE HAZARD

Always follow proper procedures for traveling down hills as described in the owner's manual. NOTE: A special technique is required when braking while traveling downhill. See page 63.



Always check the terrain carefully before descending a hill.

Shift your weight rearward.

Never travel down a hill at high speed.

Avoid traveling down a hill at an angle, which would cause the vehicle to lean sharply to one side. Travel straight down the hill when possible.

WARNING

POTENTIAL HAZARD

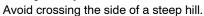
Improperly crossing hills and turning on hills.

WHAT CAN HAPPEN

Improperly crossing or turning as hills could cause loss of control or overturn.

HOW TO AVOID THE HAZARD

Never attempt to turn the ATV around on any hill until you've mastered the turning technique (on level ground) as described in the owner's manual. See page 64. Use extra caution when turning on any hill.



When crossing the side of a hill:

Always follow proper procedures as described in the owner's manual.

Avoid hills with excessively slippery or loose surfaces.

Shift your weight to the uphill side of the ATV.



A WARNING

POTENTIAL HAZARD

Stalling, rolling backwards or improperly dismounting while climbing a hill.

WHAT CAN HAPPEN

The vehicle could overturn.

HOW TO AVOID THE HAZARD

Maintain steady speed when climbing a hill.

If all forward speed is lost:

Keep your weight uphill.

Apply the service brakes.

Lock the parking brake when fully stopped.

Never back down a hill.

If the ATV begins rolling backwards:

Keep weight uphill.

Never apply engine power.

Never apply the rear brake while rolling backwards.

Apply the service brake gradually.

When fully stopped, apply the rear brake as well, and then lock the parking brake.

Dismount on uphill side, or to either side if ATV is pointed straight uphill.

Turn the ATV around and remount, following the procedure described in the owner's manual. See page 64.



A WARNING

POTENTIAL HAZARD

Improperly operating over obstacles.

WHAT CAN HAPPEN

Operating over obstacles could cause loss of control or overturn.

HOW TO AVOID THE HAZARD

Before operating in a new area, check for obstacles.

Avoid operating over large obstacles such as rocks and fallen trees when possible. If unavoidable, use extreme caution and always follow proper procedures as outlined in the owner's manual.

A WARNING

POTENTIAL HAZARD

Skidding or sliding.

WHAT CAN HAPPEN

Skidding or sliding can cause loss of control.

If the tires regain traction unexpectedly, the ATV could overturn.

HOW TO AVOID THE HAZARD

On slippery surfaces such as ice, travel slowly and use extra caution to reduce the chance of skidding or sliding out of control.

A WARNING

POTENTIAL HAZARD

Operating the ATV through deep or fast-flowing water.

WHAT CAN HAPPEN

Tires may float, causing loss of traction and loss of control, which could lead to an accident or overturn.

HOW TO AVOID THE HAZARD

Avoid operating the ATV through deep or fast-flowing water. If it's unavoidable to enter water that exceeds the recommended



maximum depth (see page 65), travel slowly, balance your weight carefully, avoid sudden movements, and maintain a slow and steady forward motion. Do not make sudden turns or stops, and do not make sudden throttle changes.

Wet brakes may have reduced stopping ability. Always test the brakes after leaving water. If necessary, apply them several times to let friction dry out the pads.

A WARNING

POTENTIAL HAZARD

Improperly operating in reverse.

WHAT CAN HAPPEN

The ATV could collide with an obstacle or person, resulting in severe injury.

HOW TO AVOID THE HAZARD

Before shifting into reverse gear, always check for obstacles or people behind the ATV. When it's safe to proceed, back slowly.



A WARNING

POTENTIAL HAZARD

Operating this ATV with improper tires, or with improper or uneven tire pressure.

WHAT CAN HAPPEN

Use of improper tires, or operation of the ATV with improper or uneven tire pressure, could cause loss of control or accident.

HOW TO AVOID THE HAZARD

Always use the size and type of tires specified for the ATV in the owner's manual.

Always maintain proper tire pressure as described in the owner's manual and on safety decals.



A WARNING

POTENTIAL HAZARD

Operating the ATV with improper modifications.

WHAT CAN HAPPEN

Improper installation of accessories or modification of the ATV may cause changes in handling, which could lead to an accident.

HOW TO AVOID THE HAZARD

Never modify the ATV through improper installation or use of accessories. All parts and accessories added to the vehicle must be genuine Polaris Industries Inc. or equivalent components designed for use on this ATV and should be installed and used according to approved instructions. See your authorized Polaris ATV dealer for more information.

A WARNING

POTENTIAL HAZARD

Overloading the ATV or carrying/towing cargo improperly.

WHAT CAN HAPPEN

Overloading and towing can cause changes in vehicle handling, which could lead to loss of control or an accident.

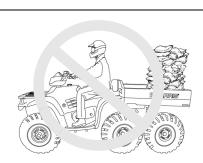
HOW TO AVOID THE HAZARD

Never exceed the stated load capacity for this ATV.

Cargo should be properly distributed and securely attached.

Reduce speed when carrying cargo or pulling a trailer. Allow a greater distance for braking.

Always follow the instructions in the owner's manual for carrying cargo or pulling a trailer.



A WARNING

POTENTIAL HAZARD

Operating on frozen bodies of water.

WHAT CAN HAPPEN

Severe injury or death can result if the ATV and/or the operator fall through the ice.

HOW TO AVOID THE HAZARD

Never operate the ATV on a frozen body of water.



A WARNING

Operating a damaged ATV can result in an accident with serious injury or death. After any overturn or accident, have a qualified service dealer inspect the entire machine for possible damage, including (but not limited to) brakes, throttle and steering systems.

WARNING

Safe operation of this rider-active vehicle requires good judgement and physical skills. Persons with cognitive or physical disabilities who operate this vehicle have an increased risk of overturn and loss of control, which could result in severe injury or death.

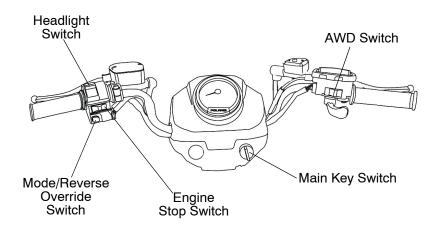
A WARNING

Exhaust system components are very hot during and after use of the vehicle. Hot components can cause serious burns and fire. Do not touch hot exhaust system components. Always keep combustible materials away from the exhaust system. Use caution when traveling through tall grass, especially dry grass.

A WARNING

Leaving the keys in the ignition can lead to unauthorized use of the vehicle resulting in serious injury or death. Always remove the ignition key when the vehicle is not in use.

FEATURES AND CONTROLS Switches



A WARNING

Activating the override switch while the throttle is open can cause loss of control, resulting in severe injury or death. Do not activate the override switch while the throttle is open.

Mode/Reverse Override Switch

This vehicle is equipped with a reverse speed limiter system. To gain additional power while backing, depress the override switch.

NOTE: The override switch also allows activation of All Wheel Drive in reverse, if the AWD switch is on. This switch is also used to toggle through the modes of the rider information center. See page 45.

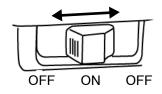
All Wheel Drive (AWD) Switch

See page 43 for AWD information.

Switches

Engine Stop Switch

Move the stop switch to the center (OFF) position to stop the engine quickly. The stop switch provides the operator with a quick means of engine shutdown in case of stuck throttle or other emergency. The engine will not start or run when the switch is off.



NOTE: The taillight is on whenever the main key switch is on. Turn the main key switch off to prevent battery drain.

Main Key Switch

Turn the main key switch off to stop the engine. To start the engine, slide the stop switch to the center RUN position and turn the main key switch clockwise past the ON position. Release the key when the engine starts.

Headlight Switch

Use the headlight switch to turn the lights on and off and to change the lights from high beam to low beam.

NOTE: The lights won't work unless the key is in the ON position.

A WARNING

Operating the ATV on streets or roads, especially in darkness, could result in an accident and serious injury or death.

Your ATV is not equipped with highway-approved lights. It's designed for and must be used for off-road use only. Use caution and drive at reduced speeds in conditions of reduced visibility such as fog, rain and darkness.

FEATURES AND CONTROLS Throttle Lever

A WARNING

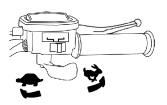
Operating an ATV with sticking or improperly operating throttle controls could cause an accident and lead to severe injury or death.

Never start or operate an ATV with a sticking or improperly operating throttle. Always contact your dealer for service if throttle problems arise.

Failure to check or maintain proper operation of the throttle system can result in an accident if the throttle lever sticks during operation. Always check the lever for free movement and return before starting the engine. Also check occasionally during operation.

Engine speed and vehicle movement are controlled by pressing the throttle lever. The throttle lever is spring loaded. Engine speed returns to idle when the lever is released.

This ATV is equipped with Polaris Electronic Throttle Control (ETC), which is designed to reduce the risk of a frozen or stuck throttle. If the throttle should stick in an open



position, engine RPM will diminish and power to the rear wheels will cease.

A WARNING

Modifications to the ETC could result in failure to perform as designed, which could result in severe injury or death. Do not attempt to modify the ETC system or replace it with any after market throttle mechanisms. Always ensure that the throttle cable is properly installed to the ETC.

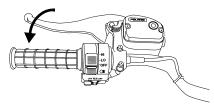
Brake Systems

The braking system is controlled by the two brake levers located on the handlebars.

Service Brake Lever

The service brake lever is located on the left handlebar. This lever controls both front and rear wheel braking action. Use this lever for normal braking.

Apply the service brakes by squeezing the left brake lever toward the handlebar. These brakes are hydraulically activated disc brakes.



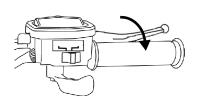
Always test brake lever travel and check the reservoir fluid level before riding. The lever should feel firm when squeezed. Any sponginess would indicate a possible fluid leak or low master cylinder fluid level, which must be corrected before operating. See your dealer for proper diagnosis and repairs.

A WARNING

Operating the ATV with a spongy brake lever can result in loss of braking, which could cause an accident. Never operate the ATV with a spongy-feeling brake lever.

Auxiliary Brake Lever

The auxiliary brake lever is located on the right handlebar. It controls braking action for the middle axle (rear brake) only. Use the auxiliary brakes for additional braking or for backup if the service brake system fails.



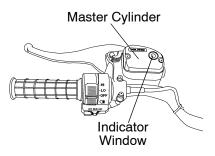
Brake Systems

Master Cylinders/Brake Fluid

The master cylinders are located on the left and right handlebars. Check fluid levels before each use of the ATV.

The fluid level can be seen through an indicator window on the top of the master cylinder. This eye will appear dark when the fluid level is full. When fluid is low, the eye will be clear.

NOTE: When checking the fluid level, the ATV must be on level ground with the handlebars straight.



If the fluid level is low add DOT 4 brake fluid only. Do not overfill. See page 126 for the part numbers of Polaris products.

Under normal operation, the diaphragm extends into the reservoir as fluid level drops. If the fluid level is low and the diaphragm is not extended, a leak is likely and the diaphragm should be replaced. To ensure proper diaphragm operation, always fill the reservoir as needed whenever the cover is loosened or removed. Do not overfill.

A WARNING

An over-full master cylinder may cause brake drag or brake lock-up, which could result in serious injury or death. Maintain brake fluid at the recommended level. Do not overfill.

A WARNING

Never store or use a partial bottle of brake fluid. Brake fluid is hygroscopic, meaning it rapidly absorbs moisture from the air. The moisture causes the boiling temperature of the brake fluid to drop, which can lead to early brake fade and the possibility of accident or severe injury. After opening a bottle of brake fluid, always discard any unused portion.

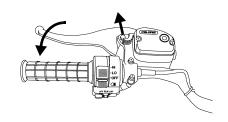
Parking Brake

A WARNING

Operating the ATV while the parking brake is engaged could result in an accident and serious injury or death. Always check to be sure the parking brake is disengaged before operating.

Locking the Parking Brake

- 1. Squeeze and release the brake lever two or three times, then squeeze and hold.
- 2. Push the parking brake lock forward to engage the lock.
- 3. Release the brake lever.
- 4. To release the parking brake lock, squeeze and release the brake lever. It will return to its unlocked position.



Important Safeguards

- The parking brake may relax if left on for a long period of time. Always block the wheels to prevent rolling.
- Always block the wheels on the downhill side of the ATV if leaving it parked on a hill. Another option is to park the ATV in a sidehill position.
- Never depend on the parking brake alone if the ATV is parked on a hill. Always block the wheels to prevent rolling.

FEATURES AND CONTROLS Fuel Tank Cap

Remove the fuel tank cap to add fuel to the fuel tank. Use either leaded or unleaded gasoline with a minimum pump octane number of 87=(R+ M/2) octane. *Do not use E-85 fuel*.

Fuel Valve

The fuel valve is located on the left side panel. It has three positions:

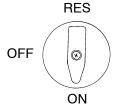
OFF: For vehicle storage and when transporting.

ON: For normal operation.

RES: For reserve supply if main supply is exhausted.

There's about a 7 to 10 mile (11.2 to 16 km) range on the reserve supply. Always refill the gas tank as soon as possible after using the main supply. Always return the valve to the ON position after refueling.





Transmission Gear Selector

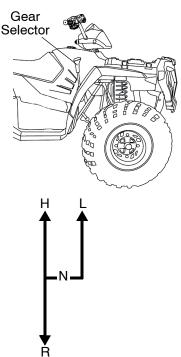
The transmission gear selector is located on the right side of the vehicle.

H: High GearL: Low GearN: NeutralR: Reverse

To change gears, stop the vehicle, and with the engine idling, move the lever to the desired gear. Do not attempt to shift gears with engine speed above idle or while the vehicle is moving.

Always place the transmission in gear and lock the parking brake whenever the vehicle is left unattended.

Maintaining shift linkage adjustment is important to assure proper transmission function. See your dealer if you experience any shifting problems.



CAUTION

Shifting gears with the engine speed above idle or while the vehicle is moving could cause transmission damage.

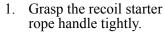
To change gears, stop the vehicle, and with the engine idling, move the lever to the desired gear.

Belt Life

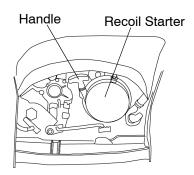
To extend belt life, use low forward gear in heavy pulling situations and when operating at less than seven miles per hour for extended periods of time.

FEATURES AND CONTROLS Recoil Starter

If the battery is too weak to start the engine, use the recoil starter. The recoil starter is located on the right side of the vehicle. Follow the starting procedures on page 53, cranking the engine with the recoil starter instead of the main key switch.



2. Pull slowly so you can feel the engine strokes.



NOTE: Every other stroke will be a "compression stroke" and will make the rope harder to pull. When a compression stroke is found, continue pulling the rope just until the engine rolls past the stroke, then stop pulling immediately.

- 3. Allow the recoil rope to rewind into the recoil assembly, then pull the rope abruptly and forcefully to start the engine.
- 4. Repeat all steps until the engine starts.
- 5. Make sure the handle is fully seated on the housing.

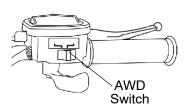
CAUTION

Extending the recoil starter rope until it stops can cause damage to the recoil assembly. Do not extend the starter rope so far that it stops.

If the starter rope handle is not seated properly, water may enter the recoil housing and damage components. Make sure the handle is fully seated on the recoil housing, especially when traveling in wet areas.

All Wheel Drive (AWD) System

The All Wheel Drive system is controlled by the AWD switch. When the switch is off, the vehicle is in rear wheel drive at all times. When the switch is on, the vehicle is in AWD and the front wheels will automatically engage any time the rear wheels lose traction. When the frear wheels regain



traction, the front wheels will automatically disengage.

NOTE: The override switch allows activation of AWD in reverse if the AWD switch is on. See page 34.

There is no limit to the length of time the vehicle may remain in AWD.

The AWD switch may be turned on or off while the vehicle is moving. If the switch is turned off when the front hubs are driving, they will not release until the rear wheels regain traction.

CAUTION

Switching to AWD while the rear wheels are spinning may cause severe drive shaft and hub damage. Always switch to AWD while the rear wheels have traction or are at rest.

FEATURES AND CONTROLS All Wheel Drive (AWD) System Disengaging Wheel Hubs

The hubs normally disengage when operating in reverse. However, one or both hubs may occasionally remain engaged. If the handlebars pull to one side, one front hub is engaged. If both hubs are engaged, steering effort increases but remains balanced from left to right, and vehicle speed is somewhat restricted.

- 1. Stop the vehicle and shift to reverse gear.
- 2. Operate in reverse for a short distance.
- 3. Stop the vehicle and shift to forward gear.

NOTE: If the hubs remain engaged after following this procedure, return the vehicle to your dealer for service.

To continue using AWD while operating in reverse, activate both the override switch and the AWD switch. See page 34.

A WARNING

Operating with only one front hub engaged could result in loss of control, accident, and severe injury or death. When hub engagement symptoms are present, use the disengaging procedure before proceeding.

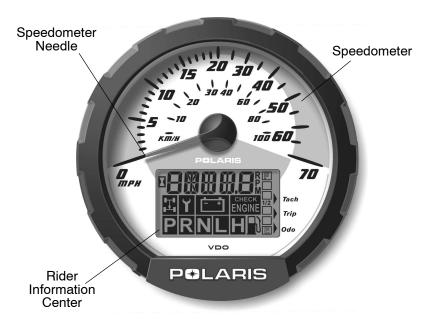
Tool Kit

To help you perform routine maintenance, a tool kit is provided in the storage compartment under the seat. Items included in the kit are:

- Screwdriver
- Open end wrench (8-10 mm)
- Open end wrench (12-14 mm)
- · Box end wrench
- Tire pressure gauge
- Spark plug wrench and handle

Instrument Cluster

Your ATV is equipped with an instrument cluster that senses vehicle speed from the right front wheel. The instrument cluster measures distance in miles or kilometers as well as hours of operation. It also includes a reverse speed limiter function that limits the ATV's speed to approximately 7-9 mph. Refer to page 34 for additional information.



NOTE: In addition to showing vehicle speed, the speedometer needle flashes when a warning condition exists.

CAUTION

High water pressure may damage ATV components. Wash the ATV by hand or with a garden hose using mild soap.

Certain products, including insect repellents and chemicals, will damage the speedometer lens and other plastic surfaces. Do not use alcohol to clean the instrument cluster. Do not allow insect sprays to contact the lens. Immediately clean off any gasoline that splashes on the instrument cluster.

Instrument Cluster

Rider Information Center

The rider information center is located in the instrument cluster. All segments will light up for 2.5 seconds at start-up.

NOTE: If the instrument cluster fails to illuminate, a battery over-voltage may have occurred and the instrument cluster may have shut off to protect the electronic speedometer. If this occurs, take the ATV to your Polaris dealer for proper diagnosis.

1. **Gear Indicator** - As the shift lever is moved, this indicates the gear the transmission is in:

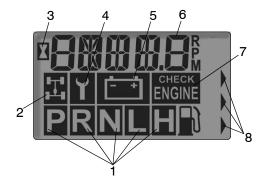
H = High Gear

L = Low Gear

N = Neutral

R = Reverse Gear

P = Park (if equipped)



- 2. **AWD Indicator** This indicator illuminates when the electrical portion of the AWD system is enabled.
- 3. Engine Hour Display Indicator
- 4. Service Interval/Diagnostic Mode Indicator
- 5. Low Battery and Over Voltage This warning usually indicates that the ATV is operating at an RPM too low to keep the battery charged. A low battery warning may also occur under normal operation if the machine is at idle and high electrical load (lights, cooling fan, accessories) is applied. Driving at a higher RPM or connecting a battery charger will usually clear the warning.
- 6. Odometer/Tachometer/Tripmeter/ Hour Meter
- 7. **Check Engine Warning Indicator** This indicator serves two purposes. The word HOT displays if the engine overheats. Do not operate the ATV if this warning appears. Serious engine damage could result.
- 8. Mode Indicator

Instrument Cluster Rider Information Center

Standard Modes

The rider information center has 4 standard modes. The reverse override button on the left handlebar is also the mode button.

NOTE: If using the mode button to program the rider information center, or to toggle through the options, the transmission cannot be in reverse.

Mode 1 - Odometer

The odometer records the miles traveled by the ATV.

Mode 2 - Trip Meter

The trip meter records the miles traveled by the ATV on each trip if it's reset before each trip. To reset the trip meter, select the trip meter mode. Press and hold the mode button (override button) until the total changes to 0.

NOTE: In the Rider Information Center, the trip meter display contains a decimal point, but the odometer displays without a decimal point.

Mode 3 - Hour Meter

This mode logs the total hours the engine has been in operation.

Mode 4 - Tachometer

The engine RPM is displayed digitally.

NOTE: Small fluctuations in the RPM from day to day may be normal because of changes in humidity, temperature, elevation and electrical loads.

Instrument Cluster

Rider Information Center

Diagnostic Mode

The diagnostic mode is for informational purposes only. Please return your ATV to your dealer for all major repairs.

As long as the gauge is in the diagnostic mode, the wrench icon will remain lit.

To leave the diagnostic mode, turn the key switch off and on.

NOTE: Any movement of the tires will also take the machine out of the diagnostic mode.

To enter the diagnostics mode:

- 1. Turn the key switch off and wait 10 seconds.
- 2. Lock the parking brake.
- 3. Place the transmission in neutral.
- 4. Hold the mode/reverse override button and turn the key switch on.
- 5. Release the switch as soon as the display is activated.

The initial screen display refers to the software version installed in your ATV. This information is displayed briefly.

Use the mode/reverse override button to toggle through the diagnostic screens.

Screen 1: Battery voltage

Screen 2: Tachometer

Screen 3: AWD diagnostic

This gauge indicates whether or not current is flowing through the AWD coil (only on models with switchable AWD).

Screen 4: Gear circuit diagnostic

This screen displays the resistance value (in ohms) being read at the gear switch input of the gauge.

Instrument Cluster Rider Information Center

Diagnostic Mode

Screen 5: Programmable service interval

The purpose of the programmable service interval is to provide the consumer and dealer with a convenient reminder for routine maintenance. When your vehicle leaves the factory, this feature is set at 50 hours. You must enable the programmable service interval before it can be used.

Once the service interval mode is set with the hours when service is due, the hours of actual engine operation are subtracted from the set hours until 0 is reached. When the counter reaches 0, the wrench icon will flash quickly for 5 seconds each time the vehicle is started as a reminder that the periodic maintenance is due.

To set the hours, press and hold the mode/override button until the wrench icon flashes. When it begins to flash, release the button. The setting will increase by one hour each time the button is pressed. Pressing and holding the button will allow the numbers to escalate much faster. When the desired time increment is displayed, release the button and wait for the wrench to stop flashing. When the wrench stops blinking, your service hours are set.

NOTE: If you scroll past the intended number, hold the button down until the count turns over to 0. You can then reset the number.

If the service interval is enabled on your ATV and you wish to turn it off, toggle to the service interval mode. Press and hold the mode button for approximately 7 seconds until the word OFF appears in the Rider Information Center.

Screen 6: Miles/Kilometers toggle

The display in the tripmeter and odometer can be changed to display either kilometers or miles. The current display mode will be shown as KM or MP. To change, hold in the mode button until the letters flash, then press and release the button once. When the display stops flashing, the mode has been set.

OPERATION Fuel Safety

A WARNING

Gasoline is highly flammable and explosive under certain conditions.

- · Always exercise extreme caution whenever handling gasoline.
- Always refuel with the engine stopped, and outdoors or in a well ventilated area.
- Do not smoke or allow open flames or sparks in or near the area where refueling is performed or where gasoline is stored.
- Do not overfill the tank. Do not fill the tank neck.
- If gasoline spills on your skin or clothing, immediately wash it off with soap and water and change clothing.
- Never start the engine or let it run in an enclosed area. Engine exhaust fumes are poisonous and can cause loss of consciousness or death in a short time.
- Turn the fuel valve off whenever the vehicle is stored or parked.

A WARNING

The engine exhaust from this product contains chemicals known to cause cancer, birth defects or other reproductive harm.

Operate this vehicle only outdoors or in well-ventilated areas.

OPERATION

Break-In Period

The break-in period for your new Polaris ATV is the first ten hours of operation, or the time it takes to use the first two full tanks of gasoline. No single action on your part is as important as following the procedures for a proper break-in. Careful treatment of a new engine and drive components will result in more efficient performance and longer life for these components.

CAUTION

Excessive heat build-up during the first three hours of operation will damage close-fitted engine parts and drive components. Do not operate at full throttle or high speeds during the first three hours of use.

Lack of proper lubrication will cause serious engine damage. Always check the oil level when refueling the vehicle.

Engine and Drivetrain Break-in

- 1. Fill the fuel tank with gasoline. See page 40.
- 2. Check the engine oil level on the dipstick. See page 77. Add oil if necessary to maintain the level between the full and add marks.
- 3. Drive slowly at first. Select an open area that allows room to familiarize yourself with vehicle operation and handling.
- 4. Vary the throttle positions. Do not operate at sustained idle.
- 5. Perform regular checks on fluid levels, controls and areas outlined on the daily pre-ride inspection checklist. See page 52.
- 6. Pull only light loads.
- 7. During the break-in period, change both the oil and the filter at 20 hours or one month.

PVT Break-in (Clutches/Belt)

A proper break-in of the clutches and drive belt will ensure a longer life and better performance. Break in the clutches and belt by operating at slower speeds during the break-in period as recommended. Pull only light loads. Avoid aggressive acceleration and high speed operation during the break-in period.

OPERATION Pre-Ride Checklist

A WARNING

If a proper inspection is not done before each use, severe injury or death could result. Always inspect the vehicle before each use to ensure it's in proper operating condition.

Item	Remarks	Page
Brake system/lever travel	Ensure proper operation	37 85
Brake fluid	Ensure proper level	38
Auxiliary brake	Ensure proper operation	37
Front suspension	Inspect, lubricate if necessary	74
Rear suspension	Inspect, lubricate if necessary	74
Steering	Ensure free operation	-
Tires	Inspect condition and pressure	88
Wheels/fasteners	Inspect, ensure fastener tightness	88 89
Frame nuts, bolts, fasteners	Inspect, ensure tightness	-
Fuel and oil	Ensure proper levels	40 77
Coolant level (if applicable)	Ensure proper level	83 84
Coolant hoses (if applicable)	Inspect for leaks	-
Throttle	Ensure proper operation	36 116
Indicator lights/switches	Ensure operation	34
Engine stop switch	Ensure proper operation	35
Air filter, pre-filter	Inspect, clean	90
Air box sediment tube	Drain deposits whenever visible	-
Headlamp	Check operation, apply Polaris dielectric grease when lamp is replaced	35 92
Brake light/tail lamp	Check operation, apply Polaris dielectric grease when lamp is replaced	95
Dump box latch	Check condition and operation of the mechanism	-
Riding gear	Wear approved helmet, goggles, and protective clothing	10

Starting the Engine

A WARNING

Engine exhaust contains poisonous carbon monoxide and can cause loss of consciousness resulting in severe injury or death. Never run an engine in an enclosed area.

- 1. Position the vehicle on a level surface.
- 2. Place the transmission in neutral.
- 3. Lock the parking brake.

NOTE: The starter interlock will prevent the engine from starting if the transmission is in gear and the brake is not engaged.

- 4. Turn the fuel valve on.
- 5. Sit on the vehicle.

NOTE: Do not use the choke if starting a warm engine. Excessive use of the choke can cause the spark plug to become wet fouled.

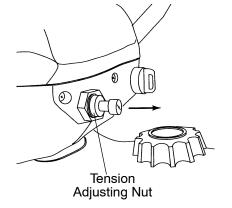
6. If the engine is cold, pull the choke knob out until it stops.

NOTE: The variable choke is fully on when the knob is pulled completely out. The choke is off when the knob is pushed completely in. The choke can be adjusted gradually, depending on how much choke is needed for starting. Be sure the choke is off during operation, as excess fuel washing into the engine oil will increase wear on engine components.

NOTE: If the knob doesn't stay where positioned, increase the tension by rotating the tension adjusting nut clockwise.

7. Move the engine stop switch to RUN.

NOTE: Do not press the throttle while starting the engine.



OPERATION Starting the Engine

- 8. Turn the ignition key past the ON position to engage the starter. Activate the starter for a maximum of five seconds, releasing the key when the engine starts.
- 9. If the engine does not start, return the key to the OFF position and wait five seconds before attempting to start again. Activate the starter for another five seconds if necessary. Repeat this procedure until the engine starts.

NOTE: If a warm engine has cooled to a point where it does not readily start, intermittent use of the choke button (pulled half way out) may be necessary. If the engine is over-choked when warm, depress the throttle lever fully while cranking to aid in starting. Release the throttle lever immediately after the engine starts. If the engine does not start and all conditions are favorable, change the spark plug and try again.

10. If the engine slows or stops, position the choke knob half way in to allow proper engine warm up. Vary the engine RPM slightly with the throttle to aid in warm-up. When the engine idles smoothly, push the choke completely in.

CAUTION

Operating the vehicle immediately after starting could cause engine damage. Allow the engine to warm up for several minutes before operating the vehicle.

Hauling Cargo

Your ATV has been designed to carry or tow a certain amount of load. Always read and understand the load distribution warning labels on the vehicle, and never exceed the weight capacities outlined in the specifications section of the owner's manual and on the safety decals.

A WARNING

Overloading the vehicle or carrying or towing cargo improperly can alter vehicle handling and may cause loss of control or brake instability.

- · Never exceed the stated load capacity for this vehicle.
- Do not obstruct the headlight when loading the front rack.
- Cargo should be properly distributed and carried as low and forward in the cargo box as possible.
- · Reduce speed and allow a greater distance for braking.
- Use extreme caution when applying brakes with a loaded
- vehicle. Avoid terrain or situations that may require backing downhill.
- · Always attach the tow load to the hitch point.
- Do not tow any trailer on a grade steeper than 15°.
- Vehicle should never exceed 10 mph (16 kph) while towing a load on a level surface. Vehicle speed should never exceed 5 mph (8 kph) when towing loads in rough terrain, while cornering, or while ascending or descending a hill.

Maximum Cargo Capacities (Level Ground)		
Total Cargo	875 lbs. (397 kg)	
Front Rack Cargo	75 lbs. (34 kg)	
Cargo Box	800 lbs. (363 kg)	

Maximum Towing Capacities		
Towed Load (level ground)	1500 lbs. (681 kg)	
Towed Load (up to 15° incline)	850 lbs. (386 kg)	
Vertical Hitch Weight	150 lbs. (68 kg)	
Towing Grade	15°	

OPERATION Hauling Cargo Dumping Cargo

- 1. Select a level site to dump the cargo. Do not attempt to dump or unload the vehicle while parked on an incline.
- 2. Lock the parking brake.
- 3. Dismount the vehicle.
- 4. Check cargo distribution. If cargo has shifted to the rear of the box, exercise caution

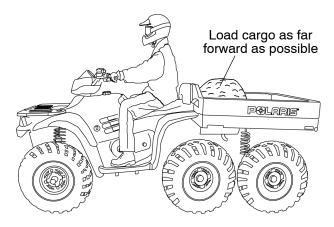


A WARNING

If the weight distribution in the box is located toward the rear of the box when the release lever is pulled forward, the box may dump on its own, which could cause serious injury. Never operate the dump lever without checking the position of the load. This will prevent unexpected dumping of the cargo box. Never carry passengers in the cargo box.

- 5. Pull the cargo box release lever forward.
- 6. Lift the front of the cargo box to dump the cargo.
- 7. Lower the cargo box. Make sure the latch is secure before operating.

Hauling Cargo Load Distribution



- 1. Never exceed the maximum capacities for hauling cargo as stated on the load distribution warning labels and on page 55.
- 2. Always load the cargo box with the load as far forward as possible.
- 3. Always operate the vehicle with extreme caution whenever hauling or towing loads. Balance, handling and control may be affected.
- 4. Slow down.
- 5. The cargo box dump latch must be securely latched before loading and operating. Unintentional box tilting will result if weight is placed in the rear of the box and the latch is not secured.

A WARNING

Operating with the cargo box in the raised position can cause serious injury and damage to the vehicle. The cargo box could close unexpectedly and injure the driver. The rear tires will also catch the rear of the box, damaging the vehicle and creating hazardous driving conditions.

Never operate this vehicle with the cargo box in the raised position.

OPERATION Driving Safely Driving Procedures



- 1. Wear protective riding gear. See page 10.
- 2. Sit upright with both feet on the footrests and both hands on the handlebars.
- 3. Start the engine and allow it to warm up. See page 53.
- 4. Shift the transmission into gear.
- 5. Check your surroundings and determine your path of travel.
- 6. Release the parking brake.
- 7. Slowly depress the throttle with your right thumb and begin driving.
- 8. Drive slowly. Practice maneuvering and using the throttle and brakes on level surfaces

OPERATION

Driving Safely Turning the Vehicle

Your ATV is equipped with a solid rear axle, which drives all rear wheels equally at all times. This means that the wheel on the outside of the turn must travel a greater distance than the inside wheel when turning and the inside tire must slip traction slightly.

To turn, steer in the direction of the turn, leaning your upper body to the inside of the turn while supporting your weight on the outer footrest. This technique alters the balance of traction between the rear wheels, allowing the turn to be made smoothly. The same leaning technique should be used for turning in reverse.



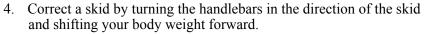
A WARNING

Turning at sharp angles or at excessive speeds can result in vehicle overturn and lead to serious injury. Avoid turning at sharp angles. Never turn at high speeds.

OPERATION Driving Safely Driving on Slippery Surfaces

Whenever riding on slippery surfaces such as wet trails or loose gravel, or during freezing weather, follow these precautions:

- 1. Slow down when entering slippery areas.
- 2. Engage AWD before wheels begin to lose traction.



CAUTION

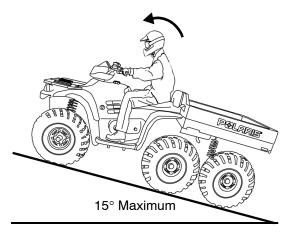
Severe damage to drive train may occur if the AWD is engaged while the wheels are spinning. Always allow the rear wheels to stop spinning before engaging AWD, or engage AWD before wheels begin to lose traction.

A WARNING

Failure to exercise care when operating on slippery surfaces can result in loss of tire traction and cause loss of control, accident, and serious injury or death.

- · Never apply the brakes during a skid.
- · Do not operate on excessively slippery surfaces.
- Always reduce speed and use additional caution.

Driving Safely Driving Uphill



Whenever traveling uphill, follow these precautions:

- 1. Drive straight uphill.
- 2. Avoid steep hills (15° maximum).
- 3. Keep both feet on the footrests.
- 4. Shift your weight uphill.
- 5. Proceed at a steady rate of speed and throttle opening.
- 6. Remain alert and be prepared to take emergency action. This may include quick dismounting of the vehicle.

A WARNING

Braking and handling are greatly affected when operating in hilly terrain. Improper procedure could cause loss of control or overturn and result in serious injury or death.

Avoid climbing steep hills (15° maximum).

Use extreme caution when operating on hills, and follow proper operating procedures outlined in the owner's manual.

OPERATION Driving Safely Driving on a Sidehill (Sidehilling)



A WARNING

Improperly crossing hills or turning on hills can result in loss of control or vehicle overturn, resulting in severe injury or death. Avoid crossing the side of a hill when possible. Follow proper procedures as outlined in the owner's manual.

Sidehilling can dangerous and should be avoided if at all possible. If you encounter a situation where sidehilling is necessary, follow these precautions:

- Slow down.
- 2. Shift your weight uphill.
- 3. Keep your feet on the footrests.
- 4. Steer slightly into the hill to maintain vehicle direction.

NOTE: If the vehicle begins to tip, quickly turn the front wheel downhill, if possible, or dismount on the uphill side *immediately*!

Driving Safely Driving Downhill



A WARNING

Excessive speed when traveling downhill can cause loss of control and serious injury or death. Slow down.

Hard use of the braking system while descending a hill could result in a frontend overturn, causing serious injury or death. Always operate the brakes slightly when descending a hill.

When driving downhill, follow these precautions:

- 1. Shift your weight uphill.
- 2. Drive straight downhill.
- Slow down.
- 4. Apply the brakes *slightly* to gradually slow the vehicle.

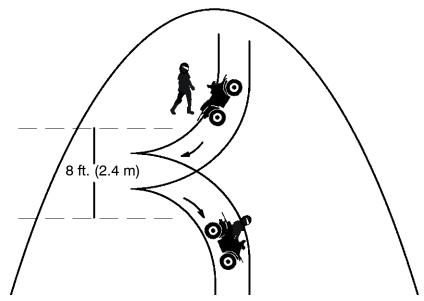
NOTE: Before operating your ATV, learn how to use the auxiliary brake for emergency situations (if service brakes become inoperable).

OPERATION

Driving Safely

Turning Around on a Hill (K-Turn)

If the vehicle stalls while climbing a hill, never back it down the hill! Use the K-turn to turn around.



- 1. Stop and lock the parking brake while keeping body weight uphill.
- 2. Leave the transmission in forward and shut off the engine.
- 3. Dismount on the uphill side of the vehicle, or on the left if the vehicle is pointing straight uphill.
- 4. Staying uphill of the vehicle, turn the handlebars full left.
- 5. While holding the service brake, release the parking brake lock and slowly allow the vehicle to roll around to your right until it's pointing across the hill or slightly downward.
- 6. Lock the parking brake. Remount the vehicle from the uphill side, keeping body weight uphill.
- 7. Start the engine with the transmission still in forward.
- 8. Release the parking brake and proceed *slowly*, controlling speed with the service brake, until the vehicle is on more level ground.

OPERATION

Driving Safely Driving Through Water

Your ATV can operate through water with a maximum recommended depth equal to the bottom of the footrests. Follow these procedures when operating through water:

- 1. Determine water depths and current before crossing.
- 2. Choose a crossing where both banks have gradual inclines.
- 3. Proceed slowly, avoiding rocks and obstacles.



4. After crossing, dry the brakes by applying light pressure to the lever until braking action is normal.

After running the vehicle in water, it's *critical* to have it serviced as outlined in the maintenance chart. See page 70. The following areas need special attention: engine oil, transmission oil, front and rear gearcases, and all grease fittings.

CAUTION

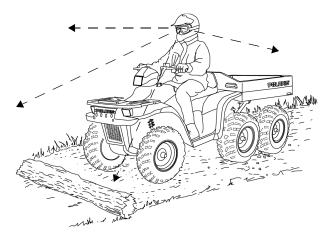
Major engine damage can result if the vehicle is not thoroughly inspected after operation in water. Perform the services outlined in the maintenance chart.

If your vehicle becomes immersed or is operated in water that exceeds the footrest level, take it to your dealer for service before starting the engine.

NOTE: Avoid operating the vehicle through deep or fast-flowing water. If you cannot avoid water that exceeds the recommended maximum depth, go slowly, balance your weight carefully, avoid sudden movements, and maintain a slow and steady forward motion. Do not make sudden turns or stops, and do not make sudden throttle changes.

If your vehicle becomes immersed, and it's impossible to take it to a dealer before starting it, follow the steps described on page 98. Have the vehicle serviced by your dealer at the first opportunity.

OPERATION Driving Safely Driving Over Obstacles



Be alert! Look ahead and learn to read the terrain you're traveling on. Be constantly alert for hazards such as logs, rocks and low hanging branches.

A WARNING

Severe injury or death can result if your vehicle comes in contact with a hidden obstacle. Not all obstacles are immediately visible. Travel with caution in unfamiliar terrain.

OPERATION

Driving Safely Driving in Reverse

Follow these precautions when operating in reverse:

- Always check for obstacles or people behind the vehicle.
- 2. Always avoid backing downhill.
- 3. Back slowly.
- 4. Apply the brakes *lightly* for stopping.
- 5. Avoid turning at sharp angles.
- 6. Never open the throttle suddenly.
- 7. Never activate the override button while the throttle is open.



A WARNING

Failure to use caution when operating in reverse can result in serious injury or death. Before shifting into reverse, always check for obstacles or people behind the vehicle. When it's safe to proceed, back slowly.

Do not use the override switch unless additional power is required for vehicle movement. Use with caution.

Avoid backing on inclines, and avoid turning at sharp angles.

NOTE: Your Polaris ATV is equipped with a reverse speed limiter. Use the override button with caution as rearward vehicle speed is greatly increased. Do not operate at wide open throttle.

CAUTION

Excessive throttle operation while in the speed limit mode may cause fuel to build in the exhaust, resulting in engine popping and/or engine damage. Operate the throttle just enough to maintain a desired speed

OPERATION Driving Safely Parking on an Incline



Avoid parking on an incline if possible. If it's unavoidable, follow these precautions:

- 1. Stop the engine.
- 2. Place the transmission in gear.
- 3. Lock the parking brake.
- 4. Always block the rear wheels on the downhill side.
- 5. Turn the fuel valve off.

EMISSION CONTROL SYSTEMS

Noise Emission Control System

Do not modify the engine, intake or exhaust components, as doing so may affect compliance with U.S.A. EPA noise control requirements (40 CFR 205.158) and local noise level requirements.

Operation on Public Lands in the U.S.A.

Your Polaris vehicle has a spark arrestor that was tested and qualified to be in accordance with the USDA Forest Service Standard 5100-1C. Federal law requires that this spark arrestor be installed and functional when the vehicle is operated on public lands.

Operation of off-road vehicles on public lands in the U.S.A. is regulated by 43 CFR 8343.1(c). Violations are subject to monetary penalties. Federal regulations can be viewed online at www.gpoaccess.gov/ecfr/.

Crankcase Emission Control System

This engine is equipped with a closed crankcase system. Blow-by gases are forced back to the combustion chamber by the intake system. All exhaust gases exit through the exhaust system.

Exhaust Emission Control System

The emissions from the exhaust of this vehicle are controlled by engine design, including factory-set fuel delivery and ignition. The engine and related components must be maintained at Polaris specifications to achieve optimal performance.

Engine idle speed is the only adjustment Polaris recommends that the operator perform. Any other adjustments should be performed by an authorized Polaris dealer.

The emissions label is located on the swing arm.

Electromagnetic Interference

This spark ignition system complies with Canadian ICES-002.

This vehicle complies with the EMC requirements of European directives 97/24/EC and 89/336/EEC.

MAINTENANCE Periodic Maintenance Chart

Careful periodic maintenance will help keep your vehicle in the safest, most reliable condition. Inspection, adjustment and lubrication of important components are explained in the periodic maintenance chart.

Inspect, clean, lubricate, adjust and replace parts as necessary. When inspection reveals the need for replacement parts, use genuine Polaris parts available from your Polaris dealer.

Record maintenance and service in the Maintenance Log beginning on page 137.

NOTE: Service and adjustments are important for proper vehicle operation. If you're not familiar with safe service and adjustment procedures, have a qualified dealer perform these operations.

Maintenance intervals in the following chart are based upon average riding conditions and an average vehicle speed of approximately 10 miles per hour. Vehicles subjected to severe use must be inspected and serviced more frequently.

Severe Use Definition

- Frequent immersion in mud, water or sand
- · Racing or race-style high RPM use
- Prolonged low speed, heavy load operation
- · Extended idle
- Short trip cold weather operation

Pay special attention to the oil level. A rise in oil level during cold weather can indicate contaminants collecting in the oil sump or crankcase. Change oil immediately if the oil level begins to rise. Monitor the oil level, and if it continues to rise, discontinue use and determine the cause or see your dealer.

Periodic Maintenance Chart Maintenance Chart Key

▶ Perform these operations more often for vehicles subjected to severe use.

E Emission-related service (Failure to conduct this maintenance will not void the emissions warranty but may affect emissions.)

■ Have an authorized Polaris dealer perform these services.

A WARNING

Improperly performing the procedures marked with a ■ could result in component failure and lead to serious injury or death. Have an authorized Polaris dealer perform these services.

Perform all services at whichever maintenance interval is reached first.

Item		Maintenance Interval (whichever comes first)			Remarks
		Hours	Calendar	Miles (Km)	
	Steering	-	Pre-Ride	-	Make adjustments as need
▶	Front suspension	-	Pre-Ride	-	ed. See Pre-Ride Checklist on page 52.
•	Rear suspension	-	Pre-Ride	-	
	Tires	-	Pre-Ride	-	
▶	Brake fluid level	-	Pre-Ride	-	
▶	Brake lever travel	-	Pre-Ride	-	
	Brake system	-	Pre-Ride	-	
	Wheels/fasteners	-	Pre-Ride	-	
	Frame fasteners	-	Pre-Ride	-	
▶	Engine oil level	-	Pre-Ride	-	
E	Air filter, pre-filter	-	Daily	-	Inspect; clean often; replace as needed
•	Air box sediment tube	-	Daily	-	Drain deposits when visible
	Coolant (if applicable)	-	Daily	-	Check level daily, change coolant every 2 years
	Headlamp/tail lamp	-	Daily	-	Check operation; apply dielectric grease if replacing
▶	Air filter, main element	-	Weekly	-	Inspect; replace as needed
	Recoil housing	-	Weekly	-	Drain water as needed, check often if operating in wet conditions

MAINTENANCE Periodic Maintenance Chart

Item Maintenance Interv (whichever comes fire			Remarks		
		Hours	Calendar	Miles (Km)	1
•	Brake pad wear	10 H	Monthly	60 (100)	Inspect periodically
•	Engine oil change (break-in)	20 H	1 M	125 (200)	Perform a break-in oil change at one month
	Battery	20 H	Monthly	125 (200)	Check terminals; clean; test
•	Front gearcase oil (if equipped)	25 H	Monthly	155 (250)	Inspect level; change yearly
•	Middle gearcase oil (if equipped)	25 H	Monthly	155 (250)	Inspect level; change yearly
•	Rear gearcase oil (if equipped)	25 H	Monthly	155 (250)	Inspect level; change yearly
•	Transmission oil	25 H	Monthly	155 (250)	Inspect level; change yearly
E	Engine breather filter (if equipped)	25 H	Monthly	155 (250)	Inspect; clean if needed
•	General lubrication	50 H	3 M	310 (500)	Lubricate all fittings, pivots, cables, etc.
	Shift linkage	50 H	6 M	310 (500)	Inspect, lubricate, adjust
	Steering	50 H	6 M	310 (500)	Lubricate
•	Front suspension	50 H	6 M	310 (500)	Lubricate
•	Rear suspension	50 H	6 M	310 (500)	Lubricate
	Carburetor float bowl	50 H	6 M	310 (500)	Drain bowl periodically and prior to storage
E	Throttle Cable/ ETC Switch	50 H	6 M	310 (500)	Inspect; adjust; lubricate; replace if necessary
E	Choke cable	50 H	6 M	310 (500)	Inspect; adjust; lubricate; replace if necessary
Ε	Carburetor air intake ducts/flange	50 H	6 M	310 (500)	Inspect duct for proper seal- ing/air leaks
•	Front hub bear- ings (if equipped)	50 H	6 M	310 (500)	Inspect; clean; replace as needed
	Drive belt	50 H	6 M	310 (500)	Inspect; adjust; replace as needed
	Cooling system (if applicable)	50 H	6 M	310 (500)	Inspect coolant strength seasonally; pressure test system yearly

Perform these procedures more often for vehicles subjected to severe use.
 Emission-Related Service
 Have an authorized Polaris dealer perform these services.

Periodic Maintenance Chart

	Item Maintenance Interval (whichever comes first)		Remarks		
		Hours	Calendar	Miles (Km)	
•	Engine oil and filter change	100 H	6 M	620 (1000)	Perform a break-in oil change at one month
•	Oil tank vent hose	100 H	12 M	620 (1000)	Inspect routing, condition
Ē	Valve clearance	100 H	12 M	620 (1000)	Inspect; adjust
E	Fuel system	100 H	12 M	620 (1000)	Check for leaks at tank cap, lines, filter, pump; replace lines every two years
Ē	Fuel filter	100 H	12 M	620 (1000)	Replace yearly
•	Radiator (if applicable)	100 H	12 M	620 (1000)	Inspect; clean external surfaces
•	Cooling hoses (if applicable)	100 H	12 M	620 (1000)	Inspect for leaks
▶	Engine mounts	100 H	12 M	620 (1000)	Inspect
	Exhaust muffler/ pipe	100 H	12 M	620 (1000)	Inspect
Ē	Spark plug	100 H	12 M	620 (1000)	Inspect; replace as needed
Ē	Ignition Timing	100 H	12 M	620 (1000)	Inspect
>	Wiring	100 H	12 M	620 (1000)	Inspect for wear, routing, security; apply dielectric grease to connectors subjected to water, mud, etc.
	Clutches (drive and driven)	100 H	12 M	620 (1000)	Inspect; clean; replace worn parts
	Shift selector lubricant	200 H	24 M	1240 (2000)	Inspect; replace as needed
	Brake fluid	200 H	24 M	1240 (2000)	Change every two years
	Spark arrestor	300 H	36 M	1860 (3000)	Clean out
	Idle speed		-		Adjust as needed
	Toe adjustment	-			Inspect periodically; adjust when parts are replaced
	Auxiliary brake		-		Inspect daily; adjust as needed
	Headlight aim		-		Adjust as needed

Perform these procedures more often for vehicles subjected to severe use.
 E Emission-Related Service

Have an authorized Polaris dealer perform these services.

MAINTENANCE Lubrication Recommendations

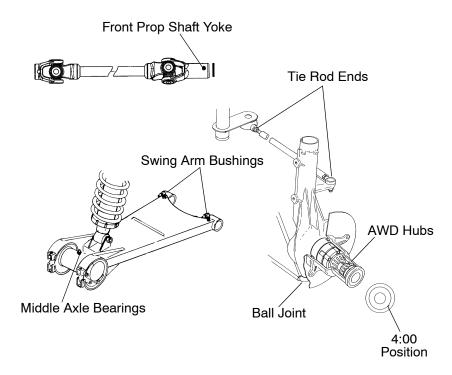
Check and lubricate all components at the intervals outlined in the Periodic Maintenance Chart beginning on page 70. Items not listed in the chart should be lubricated at the general lubrication interval.

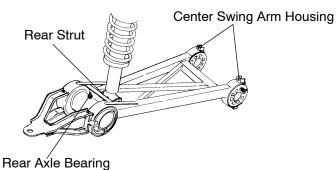
NOTE: The a-arms and lower control arms are lubricated at the factory, and no additional lubrication will be needed. However, if these components are subjected to severe use, grease zerks have been provided for additional lubrication at the user's discretion.

Item	Lube	Method
Engine Oil	PS-4 PLUS Performance Synthetic 2W-50	See page 77.
Brake Fluid	DOT 4 Only	See page 38.
Drive Chains	O-ring chain lube or SAE 80/ 90	Lubricate as often as required (before each ride in wet conditions).
Gear Selector Oil	PS-4 PLUS Performance Synthetic 2W-50	Maintain oil level at the center of the shift rail. Do not overfill.
Transmission Oil	Polaris Premium Synthetic Gearcase Lube	See page 81.
Front Prop Shaft Yoke	Polaris Premium U-Joint Lube	Grease fittings (3 pumps maximum) every 500 miles, before long periods of storage, or after pressure washing or submerging
AWD Hubs	Premium Demand Drive Hub Fluid	Remove set screw in hubs. Rotate wheels to 4:00 position (see illustration on next page). If lubricant is not visible add more. Reinstall set screw.
Ball Joint	Polaris Premium all Season Grease or grease conform-	Locate zerk on back side of struts and grease with grease gun.
Rear Axle Bearing	ing to NLGI No. 2	Locate fitting on eccentric and grease with grease gun.
Swing Arm Bushings		Locate fitting on swing arm and grease with grease gun.
Middle Axle Bearings	Polaris Premium all Season Grease or grease conform-	► Locate fitting on eccentric and grease with grease gun.
Center Swing Arm Housing	ing to NLGI No. 2	▶ Locate fitting on swing arm housing and grease with grease gun.
Rear Strut		► Locate fitting on rear strut and grease with grease gun.
Tie Rod Ends		► Grease with grease gun.

▶ = Perform more often for vehicles subjected to severe use

Lubrication Recommendations





MAINTENANCE Engine Oil Oil Recommendations

Polaris recommends the use of Polaris PS-4 *PLUS Performance* Synthetic 2W-50 4-cycle oil or a similar oil for this engine. Oil may need to be changed more frequently if Polaris oil is not used. Always use 2W-50 oil. Follow the manufacturer's recommendations for ambient temperature operation. See page 126 for the part numbers of Polaris products.

CAUTION

Mixing brands or using a non-recommended oil may cause serious engine damage. Always use the recommended oil. Never substitute or mix oil brands.

Engine Oil Oil Level

The oil dipstick is on the left side of the ATV.

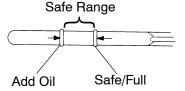
- 1. Position the vehicle on a level surface.
- 2. Start the engine. Allow it to idle for 20-30 seconds. Stop the engine.
- 3. Remove the dipstick. Wipe it dry with a clean cloth.
- 4. Reinstall the dipstick securely.

NOTE: The dipstick must be fully installed to ensure an accurate measurement.

- 5. Remove the dipstick and check the oil level.
- Add oil as needed. Maintain the oil level in the safe range. Do not overfill.

NOTE: If the oil level rises above the full (safe) mark, water and/or fuel may be collecting in the tank. Change the oil.





MAINTENANCE Oil and Filter Change

A CAUTION

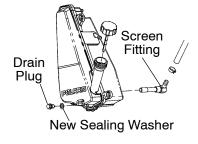
Hot oil can cause serious burns to skin. Do not allow hot oil to contact skin. If the ATV is left without oil in the system for extended periods, the oil pump may lose its prime, which could result in engine damage. Always replace the oil and filter within a few hours of draining the oil. Do not allow the vehicle to be without oil overnight.

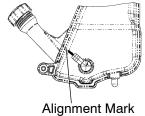
Always change the oil and filter at the intervals outlined in the Periodic Maintenance Chart beginning on page 70. Always change the oil filter whenever changing oil.

- 1. Position the vehicle on a level surface.
- 2. Start the engine. Allow it to idle for two to three minutes. Stop the engine.
- 3. Clean the area around the drain plug.
- 4. Place a drain pan under the oil tank. Remove the drain plug. Allow the oil to drain completely.
- 5. Install a new sealing washer on the drain plug.

NOTE: The sealing surfaces on drain plug and crankcase should be clean and free of burrs, nicks or scratches.

- 6. Reinstall the drain plug. Torque to 14-17 ft. lbs. (19-23 Nm).
- 7. Disconnect the lower oil delivery hose and remove the screen fitting from the oil tank. Clean the fitting.





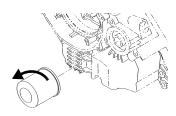
NOTE: The fitting threads must be sealed with LOCTITE PST 505 or PTFE seal tape.

Oil and Filter Change

8. Reinstall the screen fitting and rotate the fitting clockwise a minimum of 2 1/2 turns into the tank threads. Continue to rotate the fitting until the nipple of the fitting aligns with the mark on the tank.

NOTE: Do not over-tighten. Maximum torque for the screen fitting is 25 ft. lbs. (34 Nm).

- 9. Reattach the oil line.
- 10. Place shop towels beneath the oil filter. Using an oil filter wrench, turn the filter counterclockwise to remove it.
- 11. Using a clean dry cloth, clean the filter sealing surface on the crankcase.



- 12. Lubricate the o-ring on the new filter with a film of fresh engine oil. Check to make sure the o-ring is in good condition.
- 13. Install the new filter and rotate it clockwise by hand until the filter gasket contacts the sealing surface, then turn it an additional 1/2 turn.
- 14. Approximately one cup of engine oil will remain in the crankcase. To drain, remove the drain plug on the lower right side of the crankcase.

NOTE: The sealing surfaces on the drain plug and crankcase should be clean and free of burrs, nicks or scratches.

- 15. Reinstall the drain plug. Torque to 14 ft. lbs. (19 Nm).
- 16. Remove the dipstick. Add two quarts (1.9 l) of recommended oil. Reinstall the dipstick.

NOTE: If the sump is not drained, add about 1 3/4 quarts (1.6 l) initially.

- 17. Place the transmission in neutral.
- 18. Lock the parking brake.
- 19. **Prime the oil pump using the procedure on page 80.** Then stop the engine and inspect for leaks.
- 20. Check the oil level. Add oil as needed to bring the level to the upper mark on the dipstick.
- 21. Dispose of used filter and oil properly.

MAINTENANCE Oil and Filter Change Oil Pump Priming

This priming procedure must be performed whenever the oil hose connection between the oil tank and pump inlet has been disconnected.

- 1. Clamp or pinch off the vent line approximately 2" (5 cm) from the oil tank, between the end of the oil tank vent fitting and the vent line's pressure relief slit.
- Clamp Pressure Relief Slit

Tank

- 2. Start the engine. Allow it to idle for 45-60 seconds.
- 3. Remove the vent line clamp. If the line is bled properly, you should hear a rush of air, indicating that the line is properly primed and ready for operation.

NOTE: If you do not hear air, the line has not bled. Repeat the priming procedure.

Transmission Oil

Always check and change the transmission oil at the intervals outlined in the Periodic Maintenance Chart beginning on page 70. Maintain the oil level at the bottom of the fill plug hole threads. We recommend the use of Polaris Premium AGL Synthetic Gearcase Lubricant. See page 126 for the part numbers of Polaris products.

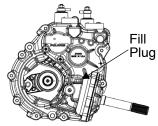
Access the transmission fill plug from the right side of the vehicle. Access the drain plug from the left side of the vehicle.

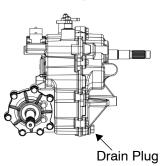
Oil Check

- 1. Position the vehicle on a level surface.
- 2. Remove the propshaft shield from the right side of the vehicle.
- 3. Remove the fill plug.
- 4. Check the oil level. Add the recommended gearcase oil as needed to bring the level to the bottom of the fill hole threads.
- 5. Reinstall the fill plug. Torque to 14 ft. lbs. (19 Nm).
- 6. Reinstall the propshaft shield.

Oil Change

- 1. Position the vehicle on a level surface. Remove the propshaft shield from the right side of the vehicle.
- 2. Place a drain pan under the gearcase.
- 3. Remove the drain plug. Allow the oil to drain completely.
- 4. Clean the drain plug. Install a new sealing washer on the drain plug.
- 5. Reinstall the drain plug. Torque to 14 ft. lbs. (19 Nm).
- 6. Remove the fill plug. Add the recommended oil. See page 124 for capacities.
- 7. Reinstall the fill plug. Torque to 14 ft. lbs. (19 Nm).
- 8. Check for leaks.
- 9. Reinstall the propshaft shield.
- 10. Dispose of used oil properly.

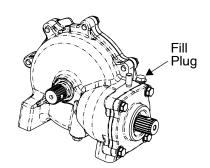




MAINTENANCE Front Gearcase Oil

Always check and change the front gearcase oil at the intervals outlined in the Periodic Maintenance Chart beginning on page 70. Maintain the oil level at the bottom of the fill hole threads.

We recommend the use of Polaris Premium ATV Angle Drive Fluid. See page 126 for the part numbers of Polaris products.



Oil Check

- 1. Position the vehicle on a level surface.
- 2. Remove the fill plug.
- 3. Check the oil level.
- 4. Add the recommended gearcase oil as needed to bring the level to the bottom of the fill hole threads.
- 5. Reinstall the fill plug. Torque to 14 ft. lbs. (19 Nm).

Oil Change

- 1. Position the vehicle on a level surface.
- 2. Remove the fill plug.
- 3. Place a drain pan under the gearcase. The drain plug is located on the bottom right-hand side of the gearcase.
- 4. Remove the drain plug. Allow the oil to drain completely.
- 5. Clean and reinstall the drain plug. Torque to 14 ft. lbs. (19 Nm).
- 6. Add the recommended oil. See page 124 for capacities. Maintain the oil level at the bottom of the fill hole threads
- 7. Reinstall the fill plug. Torque to 14 ft. lbs. (19 Nm).
- Check for leaks.
- 9. Dispose of used oil properly.

Cooling System

The engine coolant level is controlled, or maintained, by the recovery system. The recovery system components are the recovery bottle, the radiator filler neck, the radiator pressure cap and the connecting hose.

As coolant operating temperature increases, the expanding (heated) excess coolant is forced out of the engine, past the pressure cap, and into the recovery bottle. As engine coolant temperature decreases the contracting (cooled) coolant is drawn back up from the bottle, past the pressure cap, and into the radiator.

NOTE: Some coolant level drop on new vehicles is normal as the system is purging itself of trapped air. Check the coolant level and maintain as recommended by adding coolant to the recovery bottle.

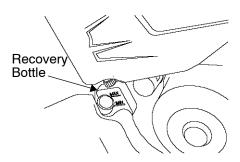
Polaris recommends the use of Polaris Premium 60/40 anti-freeze/coolant or a 50/50 mixture of high quality aluminum compatible anti-freeze/coolant and distilled water. Polaris Premium 60/40 is already premixed and ready to use. Do not dilute with water. See page 126 for the part numbers of Polaris products.

NOTE: Always follow the manufacturer's mixing recommendations for the freeze protection required in your area.

Recovery Bottle Coolant

The recovery bottle is located on the left side of the vehicle.

- 1. Remove the left side panel. See page 87.
- 2. Maintain the coolant level between the minimum and maximum marks on the bottle (when the fluid is cool).
- 3. Add coolant as needed.



MAINTENANCE Cooling System Radiator Coolant

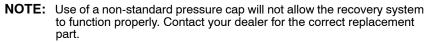
To ensure that the coolant maintains its ability to protect the engine, Polaris recommends that you drain the system completely every two years and add a fresh mixture of antifreeze and water.

Replace the coolant any time the cooling system has been drained for maintenance or repair. If the recovery bottle has run dry, check the level in the radiator. Add coolant as needed.

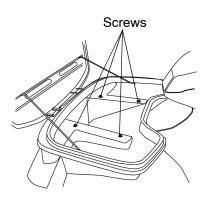
A WARNING

Escaping steam can cause severe burns. Never remove the pressure cap while the engine is warm or hot. Always allow the engine to cool before removing the pressure cap.

- 1. Open the front box cover.
- 2. Using the tool provided, remove the four screws securing the front compartment to the vehicle.
- 3. Place your fingers under the front of the compartment and pull upward to remove it.
- 4. Remove the pressure cap.
- 5. Using a funnel, slowly add coolant through the radiator filler neck.
- 6. Reinstall the pressure cap.



- 7. Reinstall the front compartment.
- 8. Secure the box cover.

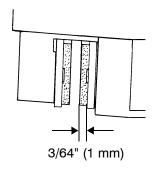


Brakes Rear Brake

The transmission brake is a hydraulic disc brake. This brake is activated by the left brake lever, which also activates the front brakes. The transmission brake system is self-adjusting.

Periodically check the brake pads for wear. Replace brake pads when they are worn to 3/64" (1 mm).

Periodically inspect the brake disc spline and pad wear surface for excessive wear.



Front Wheel and Middle Axle Brake

The front wheel and middle axle brakes are hydraulic disc brakes. These brakes are self-adjusting and require no adjustment.

The following checks are recommended to keep the brake systems in good operating condition. Check more often if brakes are used heavily under normal operation.

- 1. Always keep brake fluid at an adequate level. See page 38.
- 2. Check the brake system for fluid leaks.
- 3. Check the brakes for excessive travel or spongy feel.
- 4. Check the friction pads for wear, damage and looseness. Replace brake pads when they are worn to 3/64" (1 mm).
- 5. Check the security and surface condition of the disc.

MAINTENANCE Toe Alignment

A WARNING

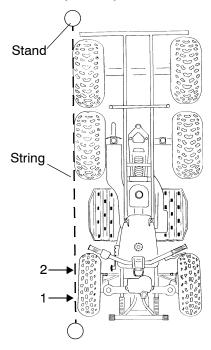
Severe injury or death can result from improper toe alignment and adjustment. Do not attempt to adjust tie rod alignment. All tie rod adjustments should be performed by an authorized Polaris dealer.

Use the following procedure to check the toe alignment of the vehicle. The recommended toe alignment is 1/8" to 1/4" (3-6 mm) toe out.

- 1. Position the vehicle on a level surface.
- 2. Place the handlebars in a straight-ahead position.
- 3. Tie a length of string between two stands as shown in the illustration. Position the stands so that the string is flush with the side of the rear tire

NOTE: If available, you may use a long straight-edge instead of string.

4. Measure the distance from the string to the rim at the front (1) and rear (2) of the front rim. The rear measurement should be 1/16"-1/8" (2-3 mm) more than the front measurement on each side of the vehicle to obtain the recommended 1/8" to 1/4" (3-6 mm) toe out alignment.



5. Repeat the measurement procedure on the other side of the vehicle.

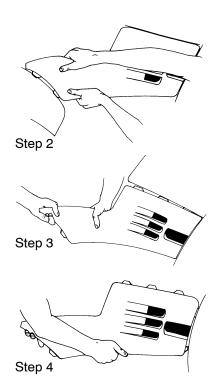
NOTE: If you discover improper alignment, see your Polaris dealer for service.

Steering Assembly

The steering assembly of the ATV should be checked periodically for loose nuts and bolts. If loose nuts and bolts are found, see your Polaris dealer for service before operating the vehicle.

Side Panel Removal

- 1. Remove the seat.
- 2. Grasp the rear of the side panel near the rear cab. With a quick and firm motion, pull the panel forward and outward to disengage the two rear tabs.
- 3. Place your hand on top of the side panel behind the fuel tank. With a quick and firm motion, push down on the side panel to disengage the top rear two tabs. Then pull up on side panel to disengage front upper and lower tabs.
- 4. To reinstall the side panel, align the panel tabs with the slots on the front cab. Push the panel upward and forward until the tabs lock. Bend the rear of the side panel and insert the two tabs into the rear cab.



Tires

Refer to the specifications section beginning on page 124 for recommended tire type, size and pressure.

A WARNING

Operating your ATV with worn tires, improperly inflated tires, non-standard tires or improperly installed tires will affect vehicle handling and could cause an accident resulting in serious injury or death.

Maintain proper tire pressure as described on the decal on your ATV and in the owner's manual.

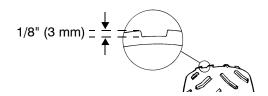
Always use original equipment size and type when replacing tires.

Make sure the wheels are installed properly.

Always replace tires when the tread depth measures 1/8" (3 mm) or less.

Tire Tread Depth

Always replace tires when tread depth is worn to 1/8" (3 mm) or less.



Wheel Removal

- 1. Stop the engine.
- 2. Place the transmission in gear.
- 3. Lock the parking brake.
- 4. Loosen the wheel nuts slightly.
- 5. Elevate the side of the vehicle by placing a suitable stand under the footrest frame.
- 6 Remove the wheel nuts
- 7 Remove the wheel

Front Wheel Hub Tightening

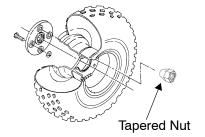
Front wheel bearing tightness and spindle nut retention are critical component operations. All service must be performed by your authorized Polaris dealer.

Tires Wheel Installation

A WARNING

Improperly installed wheels can adversely affect tire wear and vehicle handling, which can result in serious injury or death. Always ensure that all nuts are torqued to specification. Do not service axle nuts that have a cotter pin installed. See your Polaris dealer.

- 1. Place the transmission in gear.
- 2. Lock the parking brake.
- 3. Place the wheel on the hub with the valve stem toward the outside and rotation arrows on the tire pointing toward forward rotation.
- 4. Install the wheel nuts and finger-tighten them. Make sure the tapered side of the rear wheel nut fits into the taper on the wheel.



- 5. Lower the vehicle to the ground.
- 6. Torque the wheel nuts to specification.

Axle and Wheel Nut Torque Specifications

Check the following nuts for tightness occasionally and when they've been loosened for service.

Nut Type	Torque
Front Spindle Nut(s)	100 in. lbs. (11 Nm)
Front Wheel Nuts	27 ft. lbs. (37 Nm)
Center and Rear Axle Nut(s)	80 ft. lbs. (108 Nm)
Center and Rear Wheel Nuts	50 ft. lbs. (68 Nm)

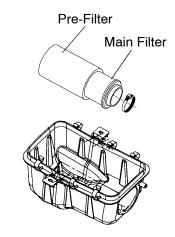
MAINTENANCE Air Filter

Always inspect and replace the air filter at the intervals outlined in the Periodic Maintenance Chart beginning on page 70.

- 1. Remove the seat.
- 2. Release the air box cover clips, and remove the air box cover.
- 3. Loosen the clamp and remove the filter.
- 4. Remove the fabric type pre-filter from the main filter. Wash the pre-filter in soapy water, then rinse and let dry.
- 5. Reinstall the pre-filter over the main filter.

NOTE: Install a new main filter if needed.

6. Reinstall the filter into the air box and tighten the clamp. Do not over-tighten the clamp, as filter damage could occur.



7. Reinstall the air box cover and the seat.

CAUTION

Operation of your vehicle without a pre-filter can cause engine damage. Always reinstall the pre-filter after removing it for service.

Air Box Drain

Periodically check the air box drain tube located on the bottom rear of the air box. Empty the drain tube if necessary.

Breather Filter/Hose

Always inspect and replace the breather filter at the intervals outlined in the Periodic Maintenance Chart beginning on page 70.

1. Remove the hose clamps from the filter and pull the filter out of the hoses.

NOTE: It's not necessary to remove the lower hose from the engine.

- 2. Inspect the filter for debris. Blow gently through the filter in the direction of the arrow to check for clogging. Replace a damaged or clogged filter.
- Breather Filter
- 3. Check the hoses for cracks, deterioration, abrasion, or leaks. Replace as needed.
- 4. Reinstall the filter with the arrow pointing toward the air box. Secure the hose clamps.

NOTE: The breather filter is intended to be used with the air box pre-filter in place. Without the pre-filter, the breather filter can clog quickly.

CAUTION

Operation of your vehicle without both the pre-filter and breather filter can cause engine damage. Always reinstall both filters after removing them for service.

MAINTENANCE Lights

When servicing a halogen lamp, don't touch the lamp with bare fingers. Oil from your skin leaves a residue, causing a hot spot that will shorten the life of the lamp.

A WARNING

Poor lighting while driving can result in severe injury or death. Headlight and taillight lenses become dirty during normal operation. Wash the headlights frequently to maintain lighting quality.

Hot components can cause serious burns to skin. Allow lamps to cool before servicing.

Headlight Lamp Replacement

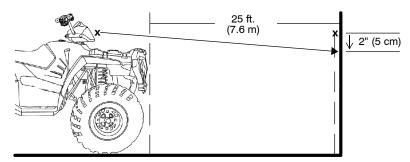
- 1. Remove the two screws on the lower front corners of the headlight pod.
- 2. Remove the screw from the rear of the pod.
- 3. Lift the pod slightly while depressing the tabs at the rear of the pod.
- 4. Lift the pod cover and disconnect the speedometer harnesses from the speedometer.
- 5. Unplug the headlamp from the wiring harness. Be sure to pull on the connector, not on the wiring.
- 6. Turn the lamp counterclockwise to remove it.
- 7. Apply dielectric grease to the socket and install the new lamp.

NOTE: Make sure the tab on the lamp locates properly in the housing.

8. Reassemble the pod.

Lights High Beam Adjustment

The headlight beam can be adjusted slightly upward or downward. Use the following procedure to make the adjustment.



- 1. Position the vehicle on a level surface with the headlight approximately 25 ft. (7.6 m) from a wall. Lock the parking brake.
- 2. Measure the distance from the floor to the center of the headlight and make a mark on the wall at the same height.
- 3. Start the engine. Turn the headlight switch to high beam.
- 4. Observe the headlight aim on the wall. The most intense part of the headlight beam should be two inches (5 cm) below the mark on the wall.

NOTE: Include rider weight on the seat when measuring.

5. The adjustment knob is located on the right side of the headlight pod. Adjust the beam to the desired position by turning the knob either clockwise or counterclockwise.

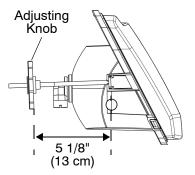
Lights

Headlight Housing Replacement

- 1. Remove the two screws on the lower front corners of the headlight pod.
- 2. Lift the pod slightly while depressing the tabs at the rear of the pod.
- 3. Lift the pod cover and disconnect the speedometer harnesses from the speedometer.
- 4. Unplug the headlamp from the wiring harness.
- 5. Use a small screwdriver to remove the o-rings from the headlight mounting tabs.
- 6. Pull the headlight housing up to release it from the locking tabs.
- 7. Lift the adjusting knob up to remove it from the locking tabs.
- 8. Carefully pull the assembly up and out of the pod.
- 9. Reverse the steps to install the new housing and reassemble the pod.

NOTE: The distance from the headlamp parting line to the end of the adjustment knob stop is 5 1/8" (13 cm).

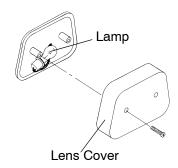
10. Adjust the headlight aim by turning the adjusting knob.



Lights

Taillight/Brakelight Lamp Replacement

- 1. Remove the taillight lens cover mounting screws. Remove the lens cover and gasket and set aside for reassembly.
- 2. Remove the lamp.
- 3. Apply dielectric grease to the socket and install the new lamp.
- 4. Test the light for proper operation.
- 5. Reinstall the gasket and lens cover.



MAINTENANCE Spark Plugs Spark Plug Recommendations

CAUTION

Using non-recommended spark plugs can result in serious engine damage. Always use Polaris-recommended spark plugs.

Refer to the specifications section beginning on page 124 for the recommended spark plug type and gap for your vehicle. Always torque spark plugs to specification.

Plug Condition	Torque Specification	
New Spark Plug	9-11 ft. lbs. (12-15 Nm)	
Previously Installed Spark Plug	17-20 ft. lbs. (23-27 Nm)	

Spark Plug Inspection

Spark plug condition is indicative of engine operation. Check the spark plug firing end condition after the engine has been warmed up and the vehicle has been driven at higher speeds. Immediately check the spark plug for correct color. See page 97.

WARNING

A hot exhaust system and engine can cause serious burns. Wear protective gloves when removing a spark plug for inspection.

- 1. Rotate the spark plug cap 1/4 turn and pull it off the spark plug.
- 2. Using the special wrench provided in the tool pouch, rotate the spark plug counterclockwise to remove it.
- Reverse the procedure for spark plug installation. Torque to specification.

Spark Plugs Spark Plug Inspection

Normal Spark Plug

The normal insulator tip is gray, tan or light brown. There will be few combustion deposits. The electrodes are not burned or eroded. This indicates the proper type and heat range for the engine and the service.

NOTE: The tip should not be flaky and white. A white insulator tip indicates overheating, caused by use of an improper spark plug or incorrect

Wet Fouled Spark Plug

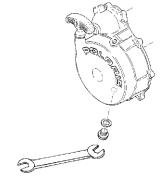
The wet fouled insulator tip is black. A damp oil film covers the firing end. There may be a carbon layer over the entire nose. Generally, the electrodes are not worn. General causes of fouling are excessive oil, use of non-recommended oil or incorrect throttle body adjustments.

Recoil Housing

Always drain the recoil housing after operating the vehicle in wet conditions. Drain the housing before storing the vehicle. Make sure the housing is completely dry before reinstalling the drain plug.

- Stop the engine.
- 2. Place the transmission in gear.
- Lock the parking brake. 3.
- Remove the drain plug on the bottom of the recoil housing.
- Allow the housing to drain com-5. pletely.
- Reinstall the drain plug.

NOTE: Do not open the *crankcase* drain unless the engine has ingested water. On 4-cycle engines, some engine oil will be lost if the crankcase drain is opened.

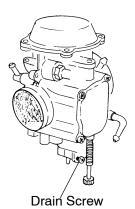


MAINTENANCE Vehicle Immersion

CAUTION

If your vehicle becomes immersed, major engine damage can result if the machine is not thoroughly inspected. Take the vehicle to your dealer before starting the engine.

- 1. If it's impossible to take your ATV to a dealer before starting it, follow the steps outlined below.
- 2. Move the ATV to dry land or at the very least, to water below the footrests
- 3. Check the air box. If water is present, dry the air box and replace the filter with a new filter.
- 4. Turn the fuel valve off.
- 5. Remove the spark plug.
- 6. Loosen the carburetor drain screw.
- 7. Turn the engine over several times using the electric start.
- 8. Dry the spark plug. Reinstall the plug or install a new plug.
- 9. Tighten the carburetor drain screw.
- 10. Turn the fuel valve on.
- 11. Attempt to start the engine. If necessary, repeat the drying procedure.
- 12. Take the ATV to your dealer for service as soon as possible, whether you succeed in starting it or not.
- 13. If water has been ingested into the PVT, follow the procedure on page 102 for drying out the PVT.



Spark Arrestor

A WARNING

Failure to heed the following warnings while servicing the spark arrestor could result in serious injury or death.

The exhaust system can get extremely hot. Do not perform service on the spark arrestor while the system is hot. Allow components to cool sufficiently before proceeding.

Remove any combustible materials from the area. Wear eye protection and leather work gloves. Do not stand behind or in front of the vehicle while purging. Never run the engine in an enclosed area. Exhaust contains poisonous carbon monoxide gas. Never go under the vehicle while it's inclined.

Use the following procedure to periodically purge accumulated carbon from the exhaust pipe/muffler.

- 1. Remove the arrestor cleanout plug from the bottom of the muffler.
- 2. Place the transmission in neutral.
- 3. Start the engine.
- 4. Quickly squeeze and release the throttle lever several times to purge carbon from the system.



- 5. If carbon comes out of the exhaust, cover or plug the exhaust outlet. Wear protective gloves.
- 6. Lightly tap on the exhaust pipe with a rubber mallet while repeating step 4.
- 7. If particles are still suspected to be in the muffler, elevate the rear of the vehicle one foot (30 cm) higher than the front. Block the wheels.
- 8. Place the transmission in neutral. Lock the parking brake. Repeat steps 4 to 6 until no more particles are expelled.
- 9. Stop the engine. Allow the arrestor to cool.
- 10. Reinstall the arrestor plug and remove the exhaust outlet cover or plug.

MAINTENANCE PVT System

A WARNING

Failure to comply with the instructions in this warning can result in severe injury or death.

Do not modify any component of the PVT system. Doing so may reduce its strength so that a failure may occur at a high speed. The PVT system has been precision balanced. Any modification will cause the system to be out of balance, creating vibration and additional loads on components.

The PVT system rotates at high speeds, creating large amounts of force on clutch components. Extensive engineering and testing has been conducted to ensure the safety of this product. However, as the owner, you have the following responsibilities to make sure this system remains safe:

- Always follow all recommended maintenance procedures. See your dealer as outlined in the owner's manual.
- This PVT system is intended for use on Polaris products only. Do not install it in any other product.
- Always make sure the PVT housing is securely in place during operation.

PVT System

The basic operation of the Polaris PVT system is dependent on engine speed and vehicle torque requirements. As engine speed increases, the force exerted on the movable drive sheave by the flyweights also increases. This, in turn, increases the amount of pinch applied to the drive belt. Similarly, if the engine speed decreases, the amount of centrifugal force decreases, reducing the amount of belt pinch.

On Polaris ATVs, the approximate gear ratio difference between high and low range is 1:2.25. This difference in gearing affects the operation of the PVT, especially at speeds less than 7 MPH (11 km/h), due to the system's dependence on engine speed.

For example, when operating at a ground speed of 3 MPH (5 km/h) in low range, the engine speed would be around 3000 RPM. This is well above the engagement speed of 1200 - 1400 RPM. However, in high range at 3 MPH (5 km/h), the engine would be running at only 1500 RPM. Whenever operating this close to the engagement speed, the engine may be running at a speed too low to provide the pinch needed to prevent belt slip. Belt slip is responsible for creating the excessive heat that destroys belts, wears clutch components and causes outer clutch covers to fail.

By switching to low range while operating at low ground speeds, the air temperature in the clutch cover is reduced by almost 160 degrees. Reducing the temperature inside the clutch cover extends the life of the PVT components (belt, cover, etc.).

MAINTENANCE PVT System

When To Use Low Range and High Range

Condition	Range to Use
Operating at speeds less than 7 MPH (11 km/h)	Low
Towing heavy loads	Low
Operating in rough terrain (swamps, mountains, etc.)	Low
Operating at speeds greater than 7 MPH (11 km/h)	High

PVT Drying

There may be some instances when water is accidently ingested into the PVT system. Use the following instructions to dry it out before operating.

- 1. Remove the drain plug. Allow the water to drain completely. Reinstall the drain plug.
- 2. Start the engine. Place the transmission in neutral. Apply varying throttle for 10-15 seconds to expel the moisture and air-dry the belt and clutches.

NOTE: Do not hold the throttle wide open for more than 10 seconds.

- 3. Allow the engine RPM to settle to idle speed, then shift the transmission to the lowest available range.
- 4. Test for belt slippage. If the belt slips, repeat the process.
- 5. Take the vehicle to your dealer for service as soon as possible.

Battery

Your ATV may have either a sealed battery, which requires little maintenance, or a conventional battery. A sealed battery can be identified by its flat covers on the top of the battery. A conventional battery has six filler caps on the top of the battery.

Conventional Battery

Always keep battery terminals and connections free of corrosion. If cleaning is necessary, remove corrosion with a stiff wire brush. Wash with a solution of one tablespoon baking soda and one cup water. Rinse well with tap water and dry off with clean shop towels. Coat the terminals with dielectric grease or petroleum jelly. Be careful not to allow cleaning solution or tap water into a conventional battery.

A WARNING

Battery electrolyte is poisonous. It contains sulfuric acid. Serious burns can result from contact with skin, eyes or clothing.

Antidote:

External: Flush with water.

Internal: Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Call physician immediately.

Eyes: Flush with water for 15 minutes and get prompt medical attention.

Batteries produce explosive gases. Keep sparks, flame, cigarettes, etc. away. Ventilate when charging or using in an enclosed space. Always shield eyes when working near batteries. KEEP OUT OF REACH OF CHILDREN.

MAINTENANCE Battery

A WARNING

Improperly connecting or disconnecting battery cables can result in an explosion and cause serious injury or death. When removing the battery, always disconnect the negative (black) cable first. When reinstalling the battery, always connect the negative (black) cable last.

Battery Removal

- 1. Disconnect the battery hold-down strap.
- 2. Remove the battery cover.
- 3. On conventional batteries, remove the battery vent tube.
- 4. Disconnect the black (negative) battery cable first.
- 5. Disconnect the red (positive) battery cable last.
- 6. Lift the battery out of the ATV. Be careful not to tip a conventional battery sideways, which could spill electrolyte.

A CAUTION

If electrolyte spills, immediately wash it off with a solution of one tablespoon baking soda and one cup water to prevent damage to the vehicle.

Battery Battery Installation

Using a new battery that has not been fully charged can damage the battery and result in a shorter life. It can also hinder vehicle performance. Follow the battery charging instructions on page 107 before installing the battery.

- 1. Ensure that the battery is fully charged.
- 2. Place the battery in the battery holder.
- 3. With conventional batteries, install the battery vent tube (sealed batteries do not have a vent tube).

NOTE: The vent tube must be free of obstructions and securely installed. If not, battery gases could accumulate and cause an explosion. The tube should be routed away from the frame and body to prevent corrosion. Avoid skin contact with electrolyte, which can cause severe burns.

- 4. Connect and tighten the red (positive) cable first.
- 5. Connect and tighten the black (negative) cable last.
- 6. Install the battery cover.
- 7. Secure the battery hold-down strap.
- 8. Verify that cables are properly routed.

MAINTENANCE Battery Battery Storage

Whenever the vehicle is not used for a period of three months or more, remove the battery from the vehicle, ensure that it's fully charged, and store it out of the sun in a cool, dry place. Check battery voltage each month during storage and recharge as needed to maintain a full charge.

NOTE: Power plug leads may need to be bent down so that the battery cover can be installed.

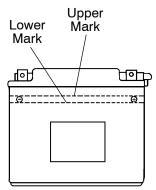
can be installed.

NOTE: Battery charge can be maintained by using a Polaris Battery Tender charger or by charging about once a month to make up for normal self-discharge. Battery Tender can be left connected during the storage period, and will automatically charge the battery if the voltage drops below a pre-determined point. See page 126 for the part numbers of Polaris products.

Battery Fluid (Conventional Battery)

A poorly maintained battery will deteriorate rapidly. Check the battery fluid level often. Maintain the fluid level between the upper and lower level marks.

Add only distilled water. Tap water contains minerals that are harmful to a battery.



Battery Battery Charging (Sealed Battery)

The following battery charging instructions apply only to the installation of a sealed battery. Read all instructions before proceeding with the installation of this battery.

The sealed battery is already filled with electrolyte and has been sealed and *fully charged* at the factory. *Never* pry the sealing strip off or add any other fluid to this battery.

The single most important thing about maintaining a sealed battery is to keep it fully charged. Since the battery is sealed and the sealing strip cannot be removed, you must use a voltmeter or multimeter to measure DC voltage.

For a refresh charge, follow all instructions carefully.

- 1. Check the battery voltage with a voltmeter or multimeter. A fully charged battery will register 12.8 V or higher.
- 2. If the voltage is less than 12.8 volts, recharge the battery at 1.2 amps or less until battery voltage is 12.8 or greater.

NOTE: When using an automatic charger, refer to the charger manufacturer's instructions for recharging. When using a constant current charger, use the following guidelines for recharging.

A WARNING

An overheated battery may explode, causing severe injury or death. Always watch charging times carefully. Stop charging if the battery becomes very warm to the touch. Allow it to cool before resuming charging.

Battery

Battery Charging (Sealed Battery)

NOTE: Always verify battery condition before and 1-2 hours after the end of charging.

State of Charge	Voltage	Action	Charge Time (Using constant current charger @ standard amps specified on top of battery)
100%	12.8-13.0 volts	None, check at 3 mos. from date of manufacture	None required
75%-100%	12.5-12.8 volts	May need slight charge, if no charge given, check in 3 months	3-6 hours
50%-75%	12.0-12.5 volts	Needs charge	5-11 hours
25%-50%	11.5-12.0 volts	Needs charge	At least 13 hours, verify state of charge
0%-25%	11.5 volts or less	Needs charge with desulfating charger	At least 20 hours

Cleaning and Storage Washing the Vehicle

Keeping your Polaris vehicle clean will not only improve its appearance but it can also extend the life of various components.

CAUTION

High water pressure may damage components. Polaris recommends washing the vehicle by hand or with a garden hose, using mild soap. Certain products, including insect repellents and chemicals, will damage plastic surfaces. Do not allow these types of products to contact the vehicle.

The best and safest way to clean your Polaris vehicle is with a garden hose and a pail of mild soap and water.

- 1. Use a professional-type washing cloth, cleaning the upper body first and the lower parts last.
- 2. Rinse with clean water frequently.
- 3. Dry surfaces with a chamois to prevent water spots.

Washing Tips

- Avoid the use of harsh cleaners, which can scratch the finish.
- Do not use a power washer to clean the vehicle.
- Do not use medium to heavy duty compounds on the finish.
- Always use clean cloths and pads for cleaning and polishing. Old or reused cloths and pads may contain dirt particles that will scratch the finish.

MAINTENANCE Cleaning and Storage Washing the Vehicle

If a high pressure water system is used for cleaning (not recommended), exercise extreme caution. The water may damage components and could remove paint and decals. Avoid directing the water stream at the following items:

- · Wheel bearings
- Radiator
- Transmission seals
- Brakes
- Cab and body panels
- Labels and decals

NOTE: If warning and safety labels are damaged, contact your Polaris dealer for free replacement.

Grease all zerk fittings immediately after washing. Allow the engine to run for a while to evaporate any water that may have entered the engine or exhaust system.

Polishing the Vehicle

Polaris recommends the use of common household aerosol furniture polish for polishing the finish on your Polaris vehicle. Follow the instructions on the container.

Polishing Tips

- Avoid the use of automotive products, some of which can scratch the finish of your vehicle.
- Always use clean cloths and pads for cleaning and polishing. Old or reused cloths and pads may contain dirt particles that will scratch the finish

Cleaning and Storage Storage Tips

CAUTION

Starting the engine during the storage period will disturb the protective film created by fogging and damage could occur. Never start the engine during the storage period.

Clean the Exterior

Make any necessary repairs and clean the vehicle as recommended. See page 109.

Fog the Engine

- 1. Support the front end of the machine so the engine is level or tilted slightly rearward.
- 2. Remove the spark plug. Rotate the piston to BDC and pour two ounces (59 ml) of engine oil into the cylinder.
- 3. Reinstall the spark plug. Torque to specification.
- 4. Apply dielectric grease to the inside of the spark plug cap. Reinstall the cap.
- 5. Turn the engine over several times using the recoil starter. Oil will be forced in and around the piston rings and ring lands, coating the cylinder with a protective film of fresh oil.
- 6. Treat the fuel system with Polaris Carbon Clean. See page 112.
- 7. If Polaris fuel system additive is not used, the fuel tank, fuel lines, and carburetor should be completely drained of gasoline.

MAINTENANCE Cleaning and Storage Storage Tips

Fluid Levels

Inspect the fluid levels. Change fluids as recommended in the Periodic Maintenance Chart beginning on page 70.

- Front demand drive unit (front gearcase)
- Rear gearcase (if equipped)
- Transmission
- Brake fluid (change every two years and any time the fluid looks dark or contaminated)
- Coolant (test strength/fill)

Stabilize the Fuel

- 1. Fill the fuel tank.
- Add Polaris Carbon Clean Fuel Treatment or Polaris Fuel Stabilizer. Follow the instructions on the container for the recommended amount.

NOTE: Carbon clean will also reduce the possibility of bacterial growth in the fuel system.

3. Allow the engine to run for 15-20 minutes to allow the stabilizer to disperse through the fuel in the tank.

Oil and Filter

Change the oil and filter. See page 78.

Air Filter / Air Box

- 1. Inspect and clean (or replace) the pre-cleaner and air filter.
- 2. Clean the air box.
- 3. Drain the sediment tube.

Recoil Housing

Drain the recoil housing. See page 97.

Cleaning and Storage Storage Tips

Inspect and Lubricate

Inspect all cables and lubricate all areas of the vehicle as recommended in the Periodic Maintenance Chart beginning on page 70.

Engine Anti-Freeze

Test engine coolant strength and change if necessary. Replace coolant every two years.

Battery Storage

See pages 106-107 for storage and charging procedures.

Storage Area/Covers

Set the tire pressure and safely support the ATV with the tires slightly off the ground. Be sure the storage area is well ventilated. Cover the vehicle with a genuine Polaris cover.

NOTE: Do not use plastic or coated materials. They do not allow enough ventilation to prevent condensation, and may promote corrosion and oxidation.

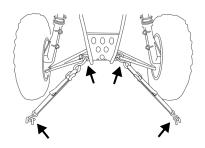
Accessories

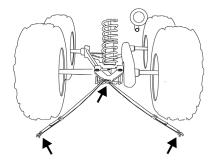
Auxiliary power outlets provide 12-volt power for operating accessories. Accessory outlets are available for all models. Polaris also has a wide range of additional accessories available for your ATV. Please see your Polaris dealer.

MAINTENANCE Transporting the Vehicle

Follow these procedures when transporting the vehicle.

- 1. Stop the engine.
- 2. Place the transmission in gear.
- 3. Lock the parking brake.
- 4. Secure the fuel cap, oil cap and seat.
- 5. Always tie the frame of the ATV to the transporting unit securely with suitable straps or rope. Do not attach tie straps to the front A-arm bolt pockets.
- 6. Remove the key to prevent loss during transporting.





ADJUSTMENTS

Camber and Caster

The camber and caster are non-adjustable.

Handlebars

The handlebars can be adjusted for rider preference.

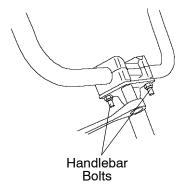
A WARNING

Improper adjustment of the handlebars or incorrect torquing of the adjuster block tightening bolts can cause limited steering or loosening of the handlebars, resulting in loss of control and possible serious personal injury or death. Follow the adjustment procedures exactly, or see your Polaris dealer for service.

- 1. Remove the upper headlight pod.
- 2. Loosen the four handlebar bolts.
- 3. Adjust the handlebar to the desired height.

NOTE: Be sure the handlebars do not contact the gas tank or any other part of the machine when turned fully to the left or right.

4. Torque the front two bolts to 10-12 ft. lbs. (14-17 Nm), then torque the rear two bolts. A gap of up to 1/8" (3 mm) will remain at the rear of the clamp blocks.



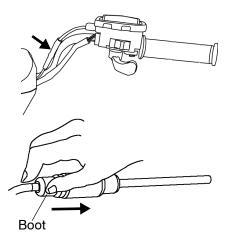
ADJUSTMENTS Throttle Cable Freeplay

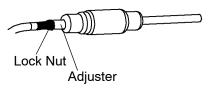
Adjust throttle cable freeplay at the handlebar.

- 1. Locate the throttle cable adjuster at the handlebar.
- 2. Squeeze the end of the rubber boot and slide it far enough to expose the end of the inline cable adjuster.
- 3. Loosen the adjuster lock nut.
- 4. Rotate the boot to turn the adjuster until 1/16" to 1/8" (1.5-3 mm) of freeplay is achieved at the thumb lever.

NOTE: While adjusting freeplay, be sure to flip the throttle lever back and forth.

- 5. Tighten the lock nut.
- 6. Squeeze the end of the rubber boot and slide it over the cable adjuster to its original position.





ADJUSTMENTS

Front Drive Chain

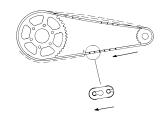
CAUTION

Operating the vehicle with the drive chain slack out of specification could cause serious damage to the transmission and drive components. Never operate the vehicle with the drive chain slack out of specification.

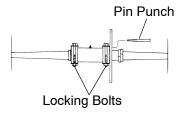
Check the amount of chain slack by moving the vehicle slightly forward to gain slack at the top side of the front chain. Then pull up and down on the chain. At this point the chain should have 3/16"-3/8" (5-9 mm) deflection. If the chain needs adjustment, use the following procedure.

- 1. Remove the chain guard and loosen the chain guide.
- 2. Loosen the two eccentric locking bolts.
- 3. Loosen the caliper mount bolts.
- 4. Insert a pin punch through the sprocket hub and into the eccentric axle housing.
- 5. Roll the vehicle forward or rearward to adjust chain slack to the proper dimension.
- 6. Tighten the caliper mount bolts to 10-12 ft. lbs. (13.5-16.3 Nm).
- 7. Tighten the eccentric locking bolts to 60 ft. lbs. (80 Nm).
- 8. Confirm correct tension by rolling the vehicle forward, checking chain tension in several places around the chain.
- 9. Reinstall the chain guard.

NOTE: Reposition the chain guide to allow 1/8" (3 mm) clearance between the sprocket and guide.

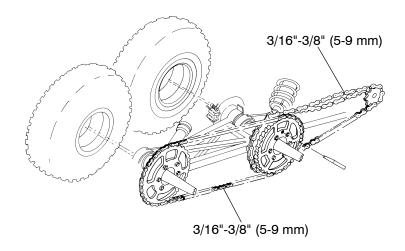


Proper splicelink clip opening position



ADJUSTMENTS Rear Axle Drive Chain

To adjust the rear axle drive chain, loosen the rearmost eccentric locking bolts and rotate using the same method as outlined for the front chain adjustment. Total slack for the rear chain should be adjusted to 3/6"-3/8" (6-9 mm) at the tightest point in the chain.



Optional Suspension Springs

Although the suspension has the capability of providing the best ride possible, the following accessory springs are available to better suit individual riding preferences.

NOTE: Optional springs may be a different color than standard springs. Springs may be painted to a desired color using Polaris touch-up paint, available through Polaris dealers.

	30F1 4			- I INW
Fror	nt Strut Spring	7041375-067 OPTION 64/113 lb./in.	7041450-067 STANDARD 101 lb./in.	None

CIDM

ADJUSTMENTS

Carburetor

Your Polaris ATV is calibrated at the factory for optimal performance at altitudes ranging from zero to 6,000 feet (1800 m) and temperatures of +40 degrees F. (4 degrees C.) or higher. Above 6000 feet (1800 m) the engine air/fuel mixture becomes overly rich and the engine loses approximately 3% of its power for each 1000-foot (304.8 m) increase in elevation. Although this power cannot be regained, adjustments to the carburetor and drive system can be made to allow more efficient operation. Optional jets, available from your Polaris dealer, are required for operation above 6,000 feet and temperatures below +40 degrees F. (4 degrees C.)

NOTE: Continuous operation of the engine without proper jetting when required can cause poor performance, overheating or PVT or engine damage. See your Polaris dealer for more information about jetting the

ATV for conditions in your area.

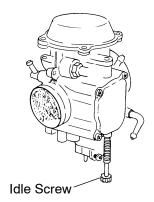
NOTE: Pilot screws are sealed with metal plugs and are serviceable only by

Polaris dealers.

Carburetor/Engine Idle RPM Adjustment

Recommended engine idle RPM is 1200 +/- 200. If the engine idle speed is unsatisfactory and all other conditions are favorable, the carburetor can be adjusted.

- Start the engine and allow it to warm up for approximately five minutes.
- 2. Place the transmission in gear.
- 3. Lock the parking brake.
- 4. Turn the screw in (clockwise) to raise RPM. Turn the screw out (counterclockwise) to lower RPM.



TROUBLESHOOTING Drive Belt Wear/Burn

Possible Cause	Solution
Driving onto a pickup or tall trailer in high range	Use low range during loading.
Starting out going up a steep incline	Use low range or turn around using the K-turn (see page 64).
Driving at low RPM or ground speed (3-7 MPH)	Drive at a higher speed or use low range more frequently. See page 102.
Insufficient warm-up at low ambient temperatures	Warm the engine at least 5 minutes. With the transmission in neutral, advance the throttle to about 1/8 throttle in short bursts, 5 to 7 times. The belt will become more flexible and prevent belt burning.
Slow/easy clutch engagement	Use the throttle quickly and effectively.
Towing/pushing at low RPM/low ground speed	Use low range only.
Utility use/plowing	Use low range only.
Stuck in mud or snow	Shift the transmission to low range and carefully use fast, aggressive throttle application to engage clutch.
	WARNING : Excessive throttle may cause loss of control and vehicle overturn.
Climbing over large objects from a stopped	Shift the transmission to low range and carefully use fast, brief, aggressive throttle application to engage clutch.
position	WARNING : Excessive throttle may cause loss of control and vehicle overturn.
Belt slippage from water or snow ingestion into the PVT system	Dry out the PVT. See page 102. Inspect clutch seals for damage if repeated leaking occurs.
Clutch malfunction	See your Polaris dealer.
Poor engine performance	Check for fouled plugs or foreign material in gas tank or fuel lines. See your dealer.
Slippage from failure to warm up belt	Always warm up the belt by operating below 30 mph for one mile (5 miles or more when temperature is below freezing).
Wrong or missing belt	Install the recommended belt.
Improper break-in	Always break in a new belt and/or clutch. See page 51.

TROUBLESHOOTING

Engine Doesn't Turn Over

Possible Cause	Solution
Low battery voltage	Recharge the battery to 12.8 VDC
Loose battery connections	Check all connections and tighten
Loose solenoid connections	Check all connections and tighten

Engine Turns Over, Fails to Start

Possible Cause	Solution
Out of fuel	Turn fuel valve to reserve, refuel
Clogged fuel valve or filter	Inspect and clean or replace
Water is present in fuel	Drain the fuel system and refuel
Old or non-recommended fuel	Replace with fresh recommended fuel
Fuel valve is turned off	Turn the fuel valve on
Fouled or defective spark plug(s)	Inspect plugs and replace if necessary
No spark to spark plug	Inspect plugs, verify stop switch is on
Water or fuel in crankcase	Immediately see your Polaris dealer
Overuse of choke	Inspect, clean and/or replace spark plugs
Low battery voltage	Recharge the battery to 12.8 VDC
Mechanical failure	See your dealer

Engine Backfires

Possible Cause	Solution
Weak spark from spark plug	Inspect, clean and/or replace spark plug(s)
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs
Old or non-recommended fuel	Replace with fresh recommended fuel
Incorrectly installed spark plug wires	See your dealer
Incorrect ignition timing	See your dealer
Mechanical failure	See your dealer
Loose ignition connections	Check all connections and tighten
Water present in fuel	Replace with fresh recommended fuel

TROUBLESHOOTING

Engine Pings or Knocks

Possible Cause	Solution
Poor quality or low octane fuel	Replace with recommended fuel
Incorrect ignition timing	See your dealer
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs

Engine Runs Irregularly, Stalls or Misfires

Possible Cause	Solution
Fouled or defective spark plug(s)	Inspect, clean and/or replace spark plug(s)
Worn or defective spark plug wires	See your dealer
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs
Loose ignition connections	Check all connections and tighten
Water present in fuel	Replace with new fuel
Low battery voltage	Recharge battery to 12.8 VDC
Kinked or plugged fuel tank vent line	Inspect and replace
Incorrect fuel	Replace with recommended fuel
Clogged air filter	Inspect and clean or replace
Reverse speed limiter malfunction	See your dealer
Electronic throttle control malfunction	See your dealer
Other mechanical failure	See your dealer
Possible Lean Fuel Cause	Solution
Low or contaminated fuel	Add or change fuel, clean the fuel system
Kinked or plugged fuel tank vent line	Inspect and replace
Low octane fuel	Replace with recommended fuel
Clogged fuel filter	Replace filter
Incorrect fuel	Replace with recommended fuel
Incorrect jetting	See your Polaris dealer
Possible Rich Fuel Cause	Solution
	Colditon
Fuel is very high octane	Replace with lower octane fuel
Fuel is very high octane Overuse of choke	
	Replace with lower octane fuel Inspect, clean and/or replace spark plugs Allow engine to warm up before operating and/or stopping
Overuse of choke Stopping/starting without adequate	Replace with lower octane fuel Inspect, clean and/or replace spark plugs Allow engine to warm up before operat-
Overuse of choke Stopping/starting without adequate warm-up	Replace with lower octane fuel Inspect, clean and/or replace spark plugs Allow engine to warm up before operating and/or stopping

TROUBLESHOOTING

Engine Stops or Loses Power

Possible Cause	Solution
Out of fuel	Refuel, cycle key to ON position three times for 5 seconds each, then start
Kinked or plugged fuel vent line	Inspect and replace
Overuse of choke	Inspect, clean and/or replace spark plugs
Water is present in fuel	Replace with new fuel
Fouled or defective spark plug(s)	Inspect, clean and/or replace spark plug(s)
Worn or defective spark plug wires	See your dealer
Incorrect spark plug gap or heat range	Set gap to specs or replace plug
Loose ignition connections	Check all connections and tighten
Low battery voltage	Recharge the battery to 12.8 VDC
Incorrect fuel	Replace with fresh recommended fuel
Clogged air filter	Inspect and clean or replace
Reverse speed limiter malfunction	See your dealer
Electronic throttle control malfunction	See your dealer
Other mechanical failure	See your dealer
Overheated engine	Clean radiator screen and core, clean engine exterior, see your dealer

Engine Overheating

Possible Cause	Solution
Debris lodged in screen	Remove and clean the screen. Pull on the top portion of the screen, then remove the lower portion.
Plugged Radiator	Use a garden hose to flush any debris from the radiator fins. NOTE: High pressure washers can deform the radiator fins and reduce cooling efficiency.

SPECIFICATIONS

Sports	man 500 6X6
Maximum Weight Capacity	1090 lbs. (494 kg) (includes operator, cargo,
Waxiiidii Weigit Capacity	accessories)
Fuel Capacity	4.25 gal. (16 l)
Engine Oil Capacity	2 qts. (1.9 l)
Coolant Capacity	2.25 qts. (21)
Transmission Oil Capacity	32 oz. (948 ml)
Front Gearcase Oil Capacity	4 oz. (120 ml)
Front Rack/Storage Box Capacity	75 lbs. (34 kg)
Cargo Box Capacity	800 lbs. (363 kg)
Hitch Tongue Capacity	150 lbs. (68 kg)
Hitch Towing Rating	1500 lbs. (680.4 kg)
Unbraked Trailer Towing Capacity*	1900 lbs. (863 kg)
Overall Length	105 in. (267 cm)
Overall Width	46 in. (117 cm)
Overall Height	48 in. (122 cm)
Wheelbase	77 in. (196 cm)
Ground Clearance	5.5 in. (14 cm)
Dry Weight	895 lbs. (406 kg)
Minimum Turning Radius	119 in. (302 cm) unloaded
Engine	EH50PLE104
Displacement	499 cc
Bore x Stroke	92 x 75 mm
Alternator Output	250W @ 5000 RPM
Compression Ratio	10.2:1
Starting System	Electric w/recoil backup
Carburetor	BST 34
Pilot Jet	40
Main Jet	142.5
Needle Jet	Q-4M (829)
Jet Needle	4HB41-3
Ignition System	DC CDI
Ignition Timing	30 +/- 2 BTDC @ 5000 RPM
Spark Plug / Gap	NGK BKR5E / 0.036" (.9 mm)
Lubrication System	Dry Sump
Driving System Type	Automatic PVT (Polaris Variable Transmission)
Front Suspension	MacPherson strut with 6.7" (17 cm) travel
Rear Suspension	Progressive rate with 7.5" (19 cm) travel

^{*} Based on EU Directive 76/432/EC

SPECIFICATIONS

Sportsman 500 6X6		
Transmission	Automatic PVT (H/L/N/R)	
Gear Reduction, Low	6.69:1	
Gear Reduction, Reverse	5.17:1	
Gear Reduction, Forward	3.34:1	
Drive Ratio, Front	2:1	
Drive Ratio, Final	12:38 80P	
Tires/Pressure, Front	Polaris PXT 25x8-12 / 5 psi	
Tires/Pressure, Center	Polaris PXT 25x11-10 / 5 psi	
Tires/Pressure, Rear	Polaris PXT 25x11-10 / 5 psi	
Brakes, Front	Hydraulic Disc	
Brakes, Rear	Hydraulic Disc	
Brake, Auxiliary	Hydraulic Disc	
Brake, Parking	Hydraulic lock, all wheel	
Headlight	1 Single Beam on Handlebar (50 watt) 2 Single Beam on Grill (27 watt)	
Taillights	8.26 watts	
Brake Light	26.9 watts	
Instrument Cluster	LCD	

Clutching Chart

A	Altitude	Shift Weight	Drive Clutch Spring	Driven Clutch Spring	Helix*
Meters (Feet)	0-1800 (0-6000)	10 MH PN 5630513	Blue/Green PN 7041157	Red PN 7041198	40° PN 5131446 2+2
	1800-3700 (6000-12000)	10 WH PN 5630710	Blue/Green PN 7041157	Red PN 7041198	40° PN 5131446 2+2

Jetting Chart

ALTITUDE	AMBIENT TEMPERATURE		
Meters (Feet)	Below 40° F (Below 5° C)	+40°F and above (+5°C and above)	
0-1800 (0-6000)	147.5	142.5	
1800-3700 (6000-12000)	140	135	

POLARIS PRODUCTS

Part			
Number	Description		
Engine Lubricant			
2870791	Fogging Oil (12 oz. Aerosol)		
2876244	PS-4 PLUS Performance Synthetic 2W-50 4-Cycle Oil (qt.)		
2876245	PS-4 PLUS Performance Synthetic 2W-50 4-Cycle Oil (gal.)		
	Gearcase / Transmission Lubricants		
2873602	Premium AGL Synthetic Gearcase Lubricant (qt.)		
2873603	Premium AGL Synthetic Gearcase Lube (gal.)		
2871653	Premium ATV Angle Drive Fluid (8 oz.)		
2872276	Premium ATV Angle Drive Fluid (2.5 gal.)		
2870465	Pump for Gallon Jug		
2871654	Premium Demand Drive Hub Fluid (8 oz.)		
2872277	Premium Demand Drive Hub Fluid (2.5 gal.)		
	Coolant		
2871323	60/40 Coolant (gal.)		
2871534	60/40 Coolant (qt.)		
	Grease / Specialized Lubricants		
2871312	Grease Gun Kit, Premium All Season (3 oz.)		
2871322	Premium All Season Grease (3 oz. cartridge)		
2871423	Premium All Season Grease (14 oz. cartridge)		
2871460	Starter Drive Grease (2 oz.)		
2871515	Premium U-Joint Lube (3 oz.)		
2871551	Premium U-Joint Lube (14 oz.)		
2871329	Dielectric Grease (Nyogel TM)		
2872073	Chain Lube, Aerosol (6.25 oz.)		
2872348	Chain Lube, Aerosol (16 oz.)		
Additives / Miscellaneous			
2871326	Carbon Clean Plus (12 oz.)		
2870652	Fuel Stabilizer (16 oz.)		
2872189	DOT4 Brake Fluid (12 oz.)		
2871956	Loctite [™] 565 Thread Sealant		
2859044	Polaris Battery Tender™ Charger		

LIMITED WARRANTY

Polaris Sales Inc., 2100 Highway 55, Medina, MN 55340, gives a SIX MONTH LIM-ITED WARRANTY on all components of the Polaris Light Utility Vehicle against defects in material or workmanship. Polaris also gives a one year limited warranty on the final drive chain for failure due to defects. This warranty covers the parts and labor charges for repair or replacement of defective parts which are covered by this warranty. This warranty begins on the date of purchase. This warranty is transferable to another consumer during the warranty period through a Polaris dealer.

REGISTRATION

At the time of sale, the Warranty Registration Form must be completed by your dealer and submitted to Polaris within ten days. Upon receipt of this registration, Polaris will record the registration for warranty. No verification of registration will be sent to the purchaser as the copy of the Warranty Registration Form will be the warranty entitlement. If you have not signed the original registration and received the customer copy, please contact your dealer immediately. NO WARRANTY COVERAGE WILL BE ALLOWED UNLESS YOUR VEHICLE IS REGISTERED WITH POLARIS.

Initial dealer preparation and set-up of your vehicle is very important in ensuring trouble-free operation. Purchasing a machine in the crate or without proper dealer set-up will void your warranty coverage.

WARRANTY WARRANTY COVERAGE AND EXCLUSIONS: LIMITATIONS OF WARRANTIES AND REMEDIES

The Polaris limited warranty excludes any failures that are not caused by a defect in material or workmanship. This warranty does not cover accidental damage, normal wear and tear, abuse or improper handling. This warranty also does not cover any vehicle that has been altered structurally, neglected, improperly maintained, used for racing, or used for purposes other than for which it was manufactured, or for any damages which occur during trailer transit or as a result of unauthorized service or the use of unauthorized parts. In addition, this warranty does not cover physical damage to paint or finish, stress cracks, tearing or puncturing of upholstery material, corrosion, or defects in parts, components or the vehicle due to fire, explosions or any other cause beyond Polaris' control.

This warranty does not cover the use of unauthorized lubricants, chemicals, or fuels that are not compatible with the vehicle. The exclusive remedy for breach of this warranty shall be, at Polaris' exclusive option, repair or replacement of any defective materials, or components or products. THE REMEDIES SET FORTH IN THIS WARRANTY ARE THE ONLY REMEDIES AVAILABLE TO ANY PERSON FOR BREACH OF THIS WARRANTY. POLARIS SHALL HAVE NO LIABILITY TO ANY PERSON FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY DESCRIPTION, WHETHER ARISING OUT OF EXPRESS OR IMPLIED WARRANTY OR ANY OTHER CONTRACT, NEGLIGENCE, OR OTHER TORT OR OTHERWISE. Some states do not permit the exclusion or limitation of incidental or consequential damages or implied warranties, so the above limitations or exclusions may not apply to you if inconsistent with controlling state law.

ALL IMPLIED WARRANTIES (INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) ARE LIMITED IN DURATION TO THE ABOVE SIX MONTH WARRANTY PERIOD. POLARIS FURTHER DISCLAIMS ALL EXPRESS WARRANTIES NOT STATED IN THIS WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you if inconsistent with controlling state law.

HOW TO OBTAIN WARRANTY SERVICE

If your vehicle requires warranty service, you must take it to a Polaris Servicing Dealer. When requesting warranty service you must present your copy of the Warranty Registration form to the dealer. (THE COST OF TRANSPORTATION TO AND FROM THE DEALER IS YOUR RESPONSIBILITY). Polaris suggests that you use your original selling dealer; however, you may use any Polaris Servicing Dealer to perform warranty service.

Please work with your dealer to resolve any warranty issues. Should your dealer require any additional assistance they will contact the appropriate person at Polaris.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If any of the above terms are void because of state or federal law, all other warranty terms will remain in effect.

Engine Oil

- 1. Mixing oil brands or using non-recommended oil may cause engine damage. We recommend the use of Polaris engine oil.
- 2. Damage resulting from the use of non-recommended lubricants may not be covered by warranty.

SPARK ARRESTOR

Polaris warrants that the spark arrestor in this vehicle will meet the efficiency requirements of 43 CFR 8343.1(c) for at least 1000 hours when subjected to normal use and when maintenance and installation are in accordance with Polaris recommendations.

Exported Vehicles

EXCEPT WHERE SPECIFICALLY REQUIRED BY LAW, THERE IS NO WAR-RANTY OR SERVICE BULLETIN COVERAGE ON THIS VEHICLE IF IT IS SOLD OUTSIDE THE COUNTRY OF THE SELLING DEALER'S AUTHORIZED LOCATION.

This policy does not apply to vehicles that have received authorization for export from Polaris Industries. Dealers may not give authorization for export. You should consult an authorized dealer to determine this vehicle's warranty or service bulletin coverage if you have any questions.

This policy does not apply to vehicles registered to government officials or military personnel on assignment outside the country of the selling dealer's authorized location.

This policy does not apply to Safety Recalls.

How to Get Service

In the Country where your vehicle was purchased:

Warranty or Service Bulletin repairs must be done by an authorized Polaris dealer. If you move or are traveling within the country where your vehicle was purchased, Warranty or Service Bulletin repairs may be requested from any authorized Polaris dealer who sells the same line as your vehicle.

Outside the Country where your vehicle was purchased:

If you are traveling temporarily outside the country where your vehicle was purchased, you should take your vehicle to an authorized Polaris dealer. You must show the dealer photo identification from the country of the selling dealer's authorized location as proof of residence. Upon residence verification, the servicing dealer will be authorized to perform the warranty repair.

If You Move:

If you move to another country, be sure to contact Polaris Customer Assistance and the customs department of the destination country before you move. Vehicles importation rules vary considerably from country to country. You may be required to present documentation of your move to Polaris Industries in order to continue your warranty coverage. You may also be required to obtain documentation from Polaris Industries in order to register your vehicle in your new country.

Exported Vehicles How to Get Service

If Purchased From A Private Party:

If you purchase a Polaris product from a private citizen outside of the country in which the vehicle was originally purchased, all warranty coverage will be denied.

Notice

If your vehicle is registered outside of the country where it was purchased, and you have not followed the procedure set out above, your vehicle will no longer be eligible for warranty or service bulletin coverage of any kind. (Vehicles registered to Government officials or military personnel on assignment outside of the country where the vehicle was purchased will continue to be covered by the basic warranty.)

For questions call Polaris Customer Assistance:

United States: 1-888-704-5290 Canada: 1-204-925-7100

California Emission Control Warranty Statement Your Warranty Rights and Obligations

The California Air Resources Board and Polaris Industries Inc., 2100 Highway 55, Medina, Minnesota 55340 (herein "POLARIS") are pleased to explain the emission control system warranty on your 2006 and later Large Spark Ignition Engine (herein "LSI engine"). "The California Air Resources Board has designated this engine for this vehicle as an LSI engine which produces 25 and greater horsepower and the vehicle has a six (6) or four (4)-wheel drive and/or a round steering wheel." In California, this LSI engine must be designed, built and equipped to meet the state's stringent anti-smog standards. Polaris must warrant the emission control system on your LSI engine for the period of time described below, provided there has been no abuse, neglect or improper maintenance of your LSI engine.

Your emission control system includes parts such as the carburetor and the ignition system. Also included may be hoses, connectors and other emission-related assemblies.

Where a warrantable condition exists, POLARIS will repair your LSI engine at no cost to you, including diagnosis, parts and labor.

Manufacturer's Warranty Coverage:

The 2006 and later LSI engines are warranted for two (2) years. If any emission related part on your LSI engine is defective, the part will be repaired or replaced by POLARIS.

Owner's Warranty Responsibilities:

- As the LSI engine owner, you are responsible for the performance of the required maintenance listed in your Owner's Safety and Maintenance Manual (herein "Owner's Manual"). POLARIS recommends that you retain all receipts covering maintenance on your LSI engine, but POLARIS cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.
- As the LSI engine owner, you should, however, be aware that POLARIS may deny
 you warranty coverage if your LSI engine or a part has failed due to abuse, neglect,
 improper maintenance or unapproved modifications.
- You are responsible for presenting your LSI engine to a dealer authorized by POLARIS as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact the Polaris Warranty Department at 1-888-704-5290.

California Emission Control Warranty Statement Limited Warranty

California Only

POLARIS warrants to the owner of 2006 and later LSI engines that the LSI engine (1) has been designed, built, and equipped at the time of manufacture so as to conform with the applicable regulations of the California Air Resources Board and, (2) is free from defects in materials and workmanship which may cause it to fail to conform with those regulations as applicable according to the terms and conditions stated below.

Warranty Period

This warranty period begins on the date, which the LSI engine is delivered, to the original retail purchaser and ends two years after that date. During this two year period POLARIS warrants to the original retail purchaser and each subsequent purchaser that the LSI engine is free from defect in material and workmanship that can cause the failure of a warranted emission-related part.

What is Covered Under This Warranty

Repair and/or replacement of any warranted emission-related part will be performed at no charge provided the work is performed at an authorized dealer. There will also be no charge for any diagnostic labor performed at an authorized dealer, which leads to the determination that a warranted emission-related part is defective.

Any warranted part which is not scheduled for replacement as required maintenance, or which is scheduled only for regular inspection to the effect of "repair or replace as necessary" shall be warranted for the warranty period. Any warranted part which is scheduled for replacement as required maintenance shall be warranted for the period of time up to the first scheduled replacement of that part. This warranty shall apply only towards the repair, replacement, and/or adjustment of the component parts listed below.

Emission-Related Parts Covered Under This Warranty

- (1) Fuel Metering System
 - (i) Carburetor and internal parts (and/or pressure regulator or fuel injection system).
 - (ii) Air/fuel ratio feedback and control system, if applicable.
 - (iii) Cold start enrichment system, if applicable.
 - (iv) Regulator assy (gaseous fuel, if applicable)
- (2) Air Induction System
 - (i) Intake manifold, if applicable
 - (ii) Air filter
- (3) Ignition System
 - (i) Spark plugs.
 - (ii) Magneto or electronic ignition system.
 - (iii) Spark advance/retard system, if applicable.
- (4) Exhaust manifold, if applicable
- (5) Miscellaneous Items Used in Above Systems
 - (i) Electronic controls, if applicable
 - (ii) Hoses, belts, connectors, and assemblies.
 - (iii) Filter lock assy (gaseous fuel, if applicable)

If an authorized dealer determines that other LSI engine components have been damaged due to the failure of a warranted emission-related part during the warranty period, POLARIS will repair and/or replace the necessary components.

California Emission Control Warranty Statement What is Not Covered Under This Warranty

This warranty does not cover any emission-related part, which malfunctions, fails, or is damaged due to alterations and/or modifications such as changing, adding, or removing parts.

When the LSI engine is being serviced under warranty, POLARIS and any of its authorized dealers shall not be liable for any loss of use of the LSI engine, for any damage to goods, or loss of time or inconvenience. This limited warranty also does not apply to any emission-related part which malfunctions, fails, or is damaged due to failure to follow the maintenance and operating instructions specified in the 2006 and later Owner's Manual including:

- (a) Improper or inadequate maintenance of any warranted emission-related part
- (b) Improper installation, adjustment, or repair of the LSI engine or any warranted emission-related part unless performed by an authorized dealer
- (c) Failure to use recommended fuel as specified in the 2006 and later Owner's Manual
- (d) Repairs and diagnosis performed outside of an authorized dealer
- (e) Use of parts which are not authorized by POLARIS

Maintenance Schedule

The LSI engine owner is responsible for having all scheduled inspection and maintenance services performed at the intervals specified in the 2006 and later owner's manual and to retain records of these services as having been performed. These records should be transferred to each subsequent owner of the LSI engine. POLARIS cannot deny a claim solely because there are no records of scheduled maintenance, however, a warranty claim may be denied if the failure to perform the scheduled maintenance and inspection resulted in the failure of a warranted emission-related part. As a minimum, the LSI engine owner is responsible for the scheduled inspection and maintenance of emissions-related items as specified in the maintenance section of the owner's manual.

California Emission Control Warranty Statement Repair and Replacement of Emission-Related Parts

It is recommended that only LSI engine replacement parts, which have been authorized and approved by POLARIS, should be used in the performance of any warranty maintenance or repairs of emission-related parts. These replacement parts will be provided at no charge if the part is still under warranty.

How to File a Warranty Claim/Where to Get Warranty Service

All repairs qualifying under this Limited Warranty must be performed by a dealer who sold you the LSI engine or a dealer authorized by POLARIS. In the event that any emission-related part is found to be defective during the warranty period, you must notify the Polaris Warranty Department at 1-888-704-5290 and you will be advised of the appropriate dealer where the warranty repair is to be performed.

U.S.A. EPA Emissions Limited Warranty

This All Terrain Vehicle (ATV) or Off Road Utility Vehicle (ORUV) emissions limited warranty is in addition to the Polaris standard limited warranty for this vehicle.

Polaris warrants that this vehicle is; (1) designed, built, and equipped to conform at the time of initial sale with the requirements of 40 CFR 1051 and, (2) free from defects in materials and workmanship that may keep it from meeting these requirements.

The emissions warranty period for this vehicle begins on the date the vehicle is delivered to the original retail purchaser and ends 30 months (2.5 years) after that date, after 5000 km (3100 miles), or after 500 hours of operation, whichever comes first.

This emission-related warranty covers components whose failure would increase an engine's emissions, including electronic controls, fuel injection, exhaust-gas recirculation, aftertreatment, or any other system utilized in this vehicle to control emissions. Replacing or repairing other components not covered by this emissions warranty or the standard warranty is the responsibility of the owner; including the parts, labor and other costs associated with recommended maintenance.

The exclusive remedy for breach of this limited warranty shall be, at the exclusive option of Polaris, repair or replacement of any defective materials, components or products. THE REMEDIES SET FORTH IN THIS LIMITED WARRANTY ARE THE ONLY REMEDIES AVAILABLE TO ANY PERSON FOR BREACH OF THIS WARRANTY. POLARIS SHALL HAVE NO LIABILITY TO ANY PERSON FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY DESCRIPTION, WHETHER ARISING OUT OF EXPRESS OR IMPLIED WARRANTY OR ANY OTHER CONTRACT, NEGLIGENCE OR OTHER TORT OR OTHERWISE.

ALL IMPLIED WARRANTIES (INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) ARE LIMITED IN DURATION TO THE WARRANTY PERIOD DESCRIBED HEREIN. POLARIS DISCLAIMS ALL EXPRESS WARRANTIES NOT STATED IN THIS WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply if it is inconsistent with the controlling state law.

This limited warranty excludes failures not caused by a defect in material or workmanship. This limited warranty does not cover damage due to accidents, abuse or improper handling, maintenance or use. This limited warranty also does not cover any engine that has been structurally altered, or any engine that has been used in racing competition. This limited warranty also does not cover physical damage, corrosion or defects caused by fire, explosions or other similar causes beyond the control of Polaris.

If you have any questions regarding your warranty rights and responsibilities, you should contact the Polaris Warranty Department at 1-888-704-5290.

MAINTENANCE LOG

Present this section of your manual to your dealer each time your vehicle is serviced. This will provide you and future owners with an accurate log of maintenance and services performed.

DATE	MILES (KM) OR HOURS	TECHNICIAN	SERVICE PERFORMED / COMMENTS

MAINTENANCE LOG

DATE	MILES (KM) OR HOURS	TECHNICIAN	SERVICE PERFORMED / COMMENTS

MAINTENANCE LOG

DATE	MILES (KM) OR HOURS	TECHNICIAN	SERVICE PERFORMED / COMMENTS

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